

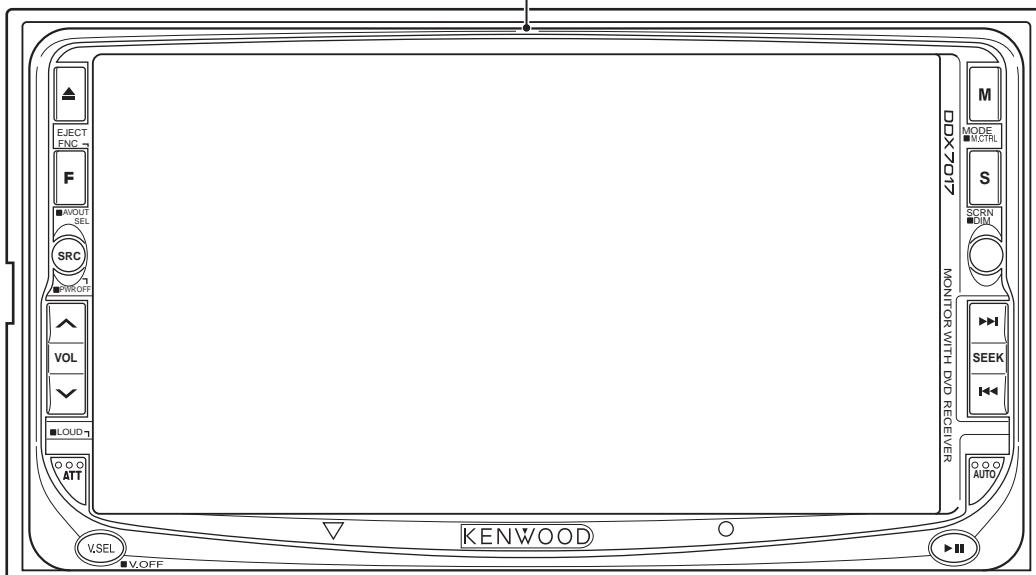
MONITOR WITH DVD RECEIVER  
**DDX6027/6027Y**  
**DDX7017/7037**  
**DDX7047/7067**  
**SERVICE MANUAL**

**KENWOOD**

Kenwood Corporation

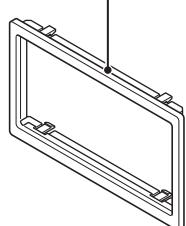
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B53-0315-00 (N) 1703

Panel assy  
(A64-3581-01): DDX7017, (A64-3582-01): DDX7047  
(A64-3583-01): DDX6027/6027Y  
(A64-3584-01): DDX7037, (A64-3586-01): DDX7067

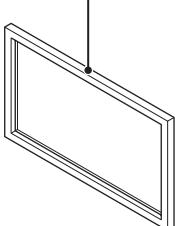


Illustrations is DDX7017

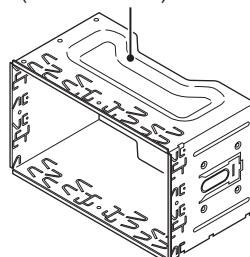
Escutcheon  
(B07-3105-02)



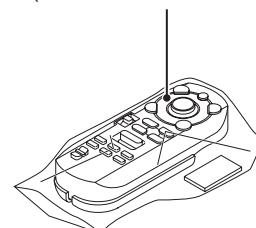
Escutcheon  
(B07-3046-04)



Mounting hardware assy  
(J22-0171-03)



Remote controller  
(A70-2072-05 : RC-DV601)

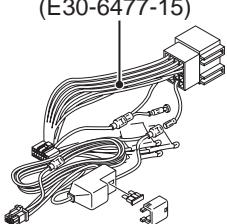


Size AAA battery  
Not supplied

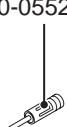


DDX6027/6027Y only

DC cord  
(E30-6477-15)



Antena adaptor  
(T90-0552-05)

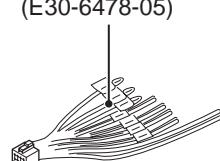


DDX7017/7037/7047/7067 only

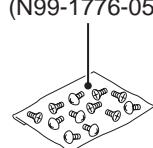
DC cord  
(E30-6475-15)



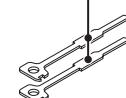
DC cord  
(E30-6478-05)



Screw set  
(N99-1776-05)



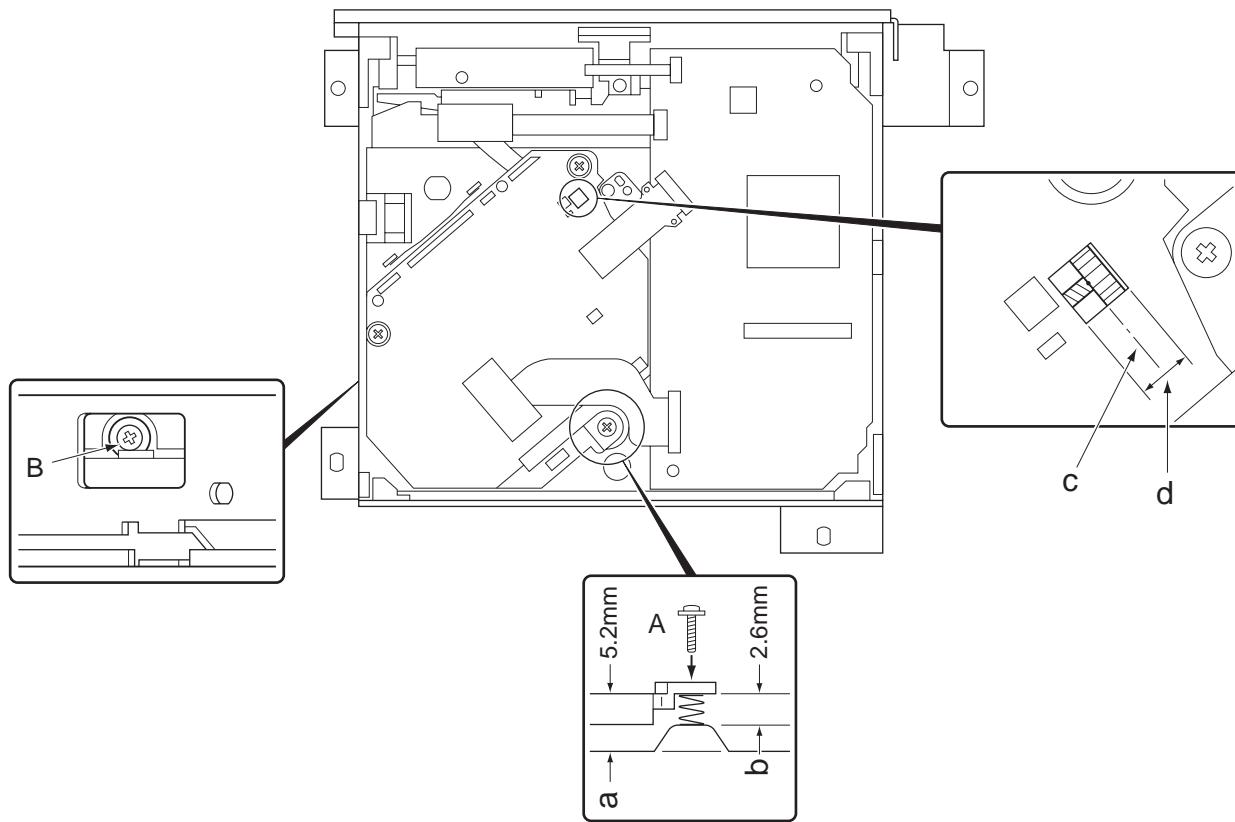
Lever  
(D10-4674-04) x2



This product uses Lead Free solder.

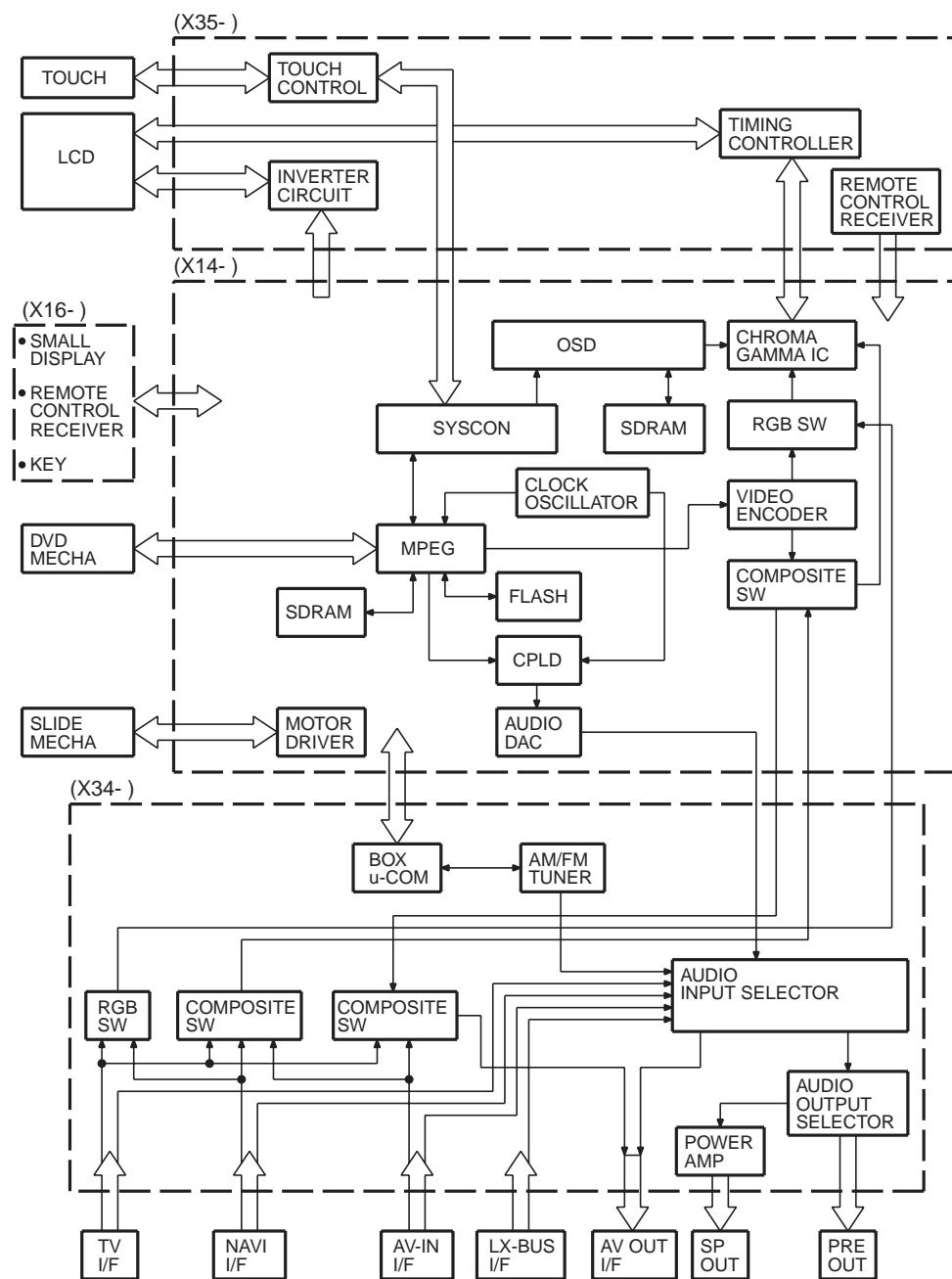
## NOTES ON ASSEMBLING THE MECHANISM

1. Fasten Screw A so that the interval (a) will be about 5.2mm and the interval (b) will be about 2.6mm. (The interval (a) can be measured using a pair of vernier calipers or similar tools.)
2. Turn B so that Position (c) will come at about the center of interval (d).
3. Then, play the test disc and fine tune A or B so that the jitter value would be minimized.



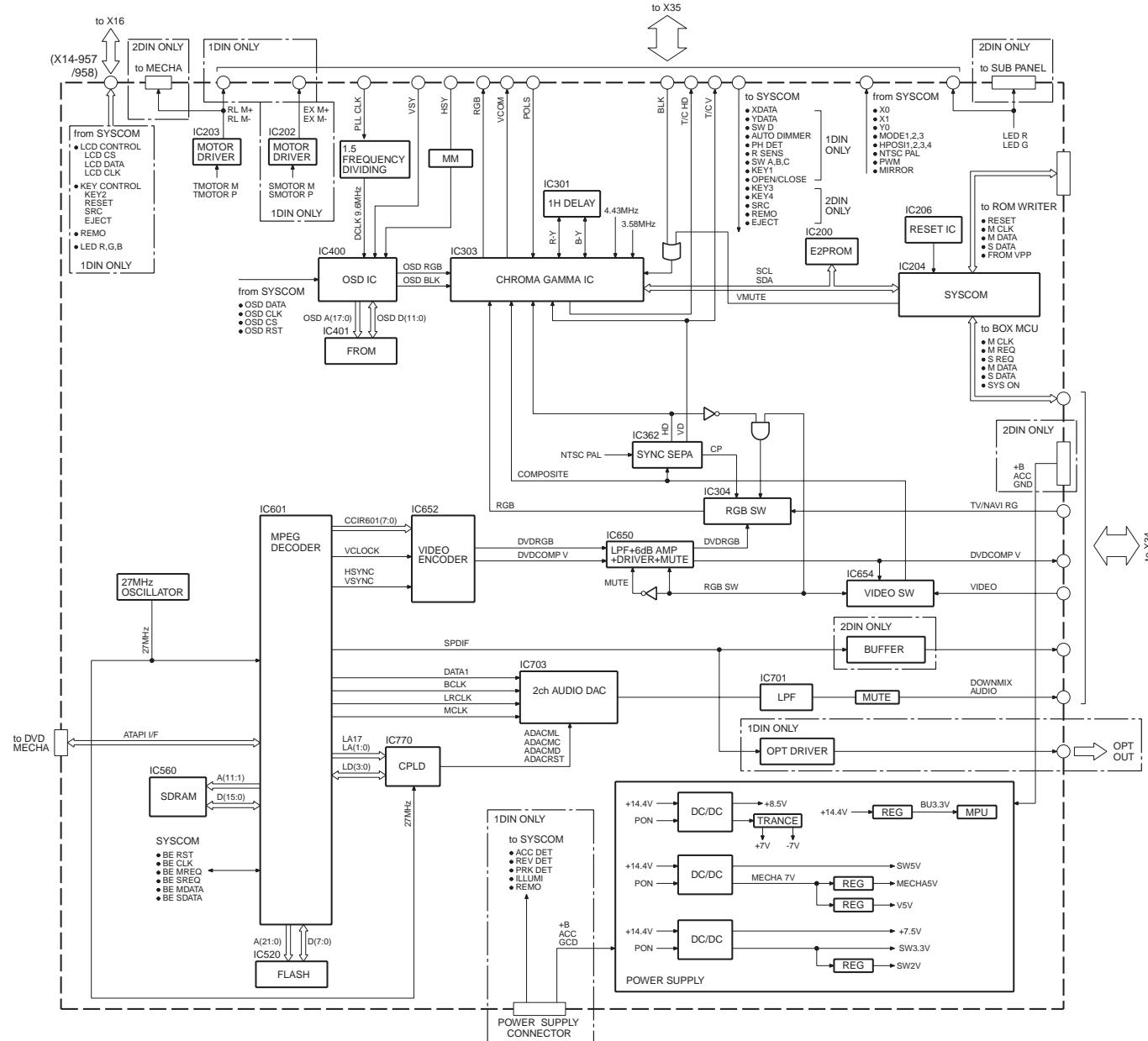
# BLOCK DIAGRAM

## ● Complete view



# BLOCK DIAGRAM

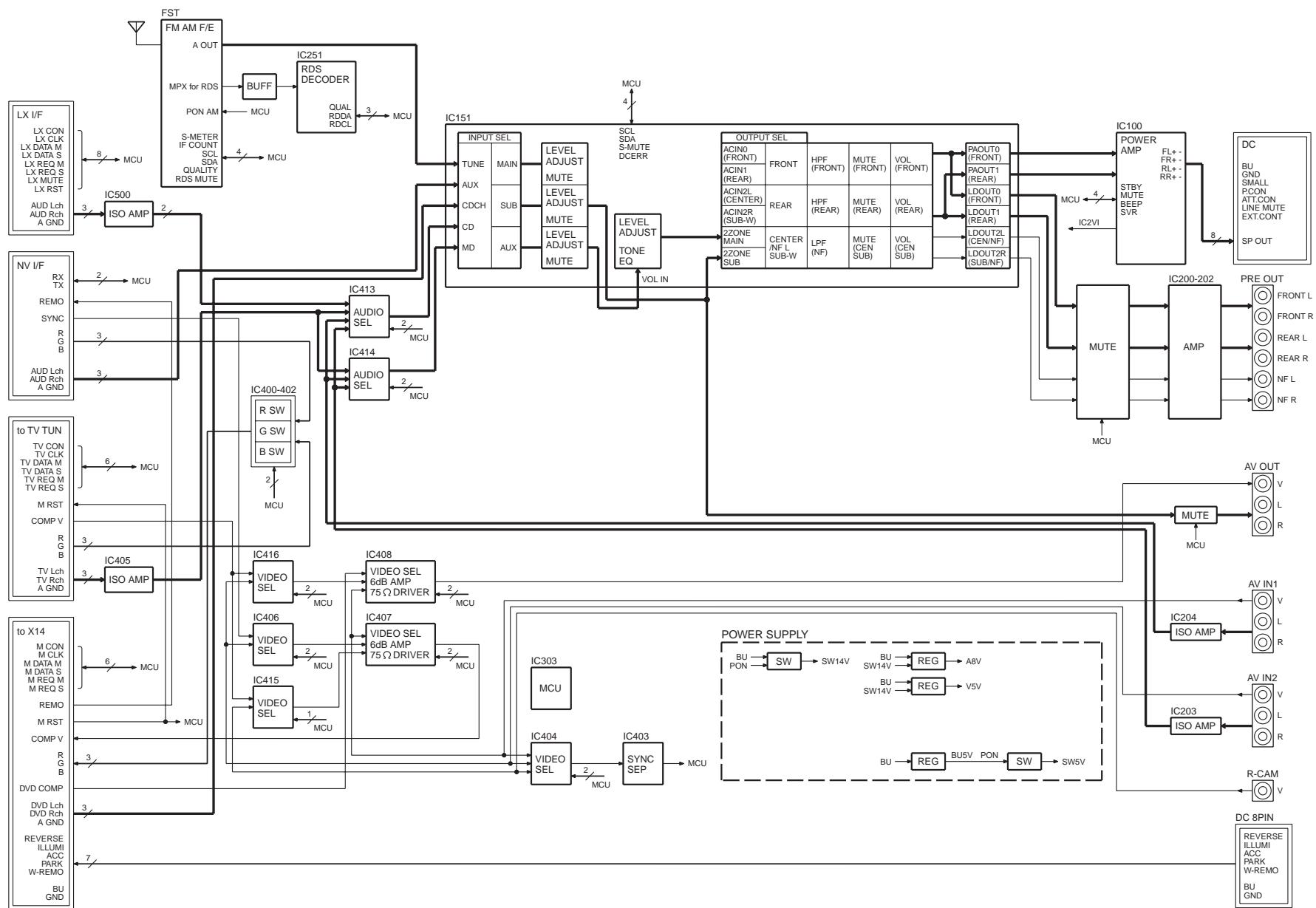
● X14-957/958



DDX6027/6027Y/7017  
DDX7037/7047/7067

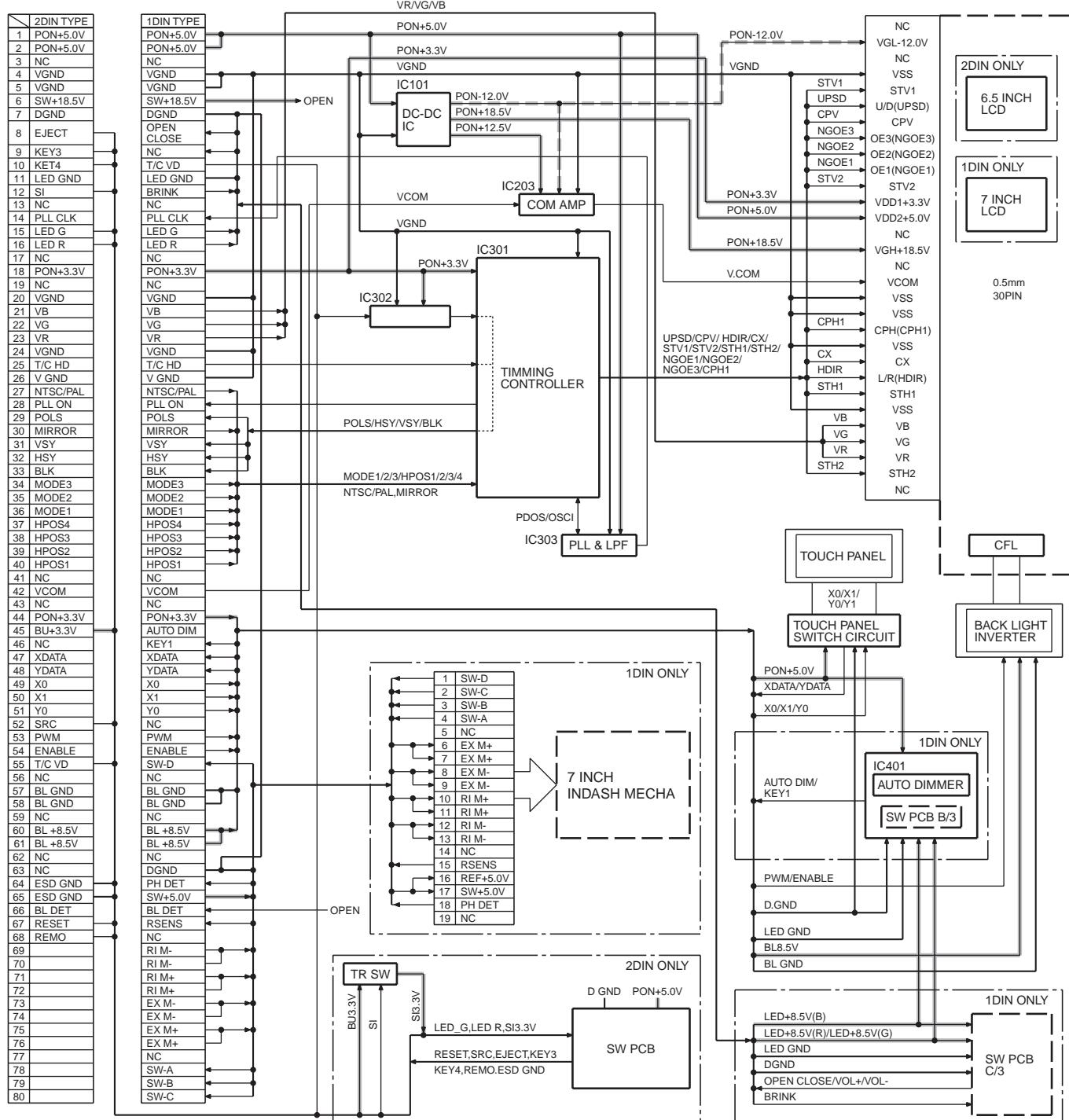
## BLOCK DIAGRAM

X34-384/385



# BLOCK DIAGRAM

● X35-458/459

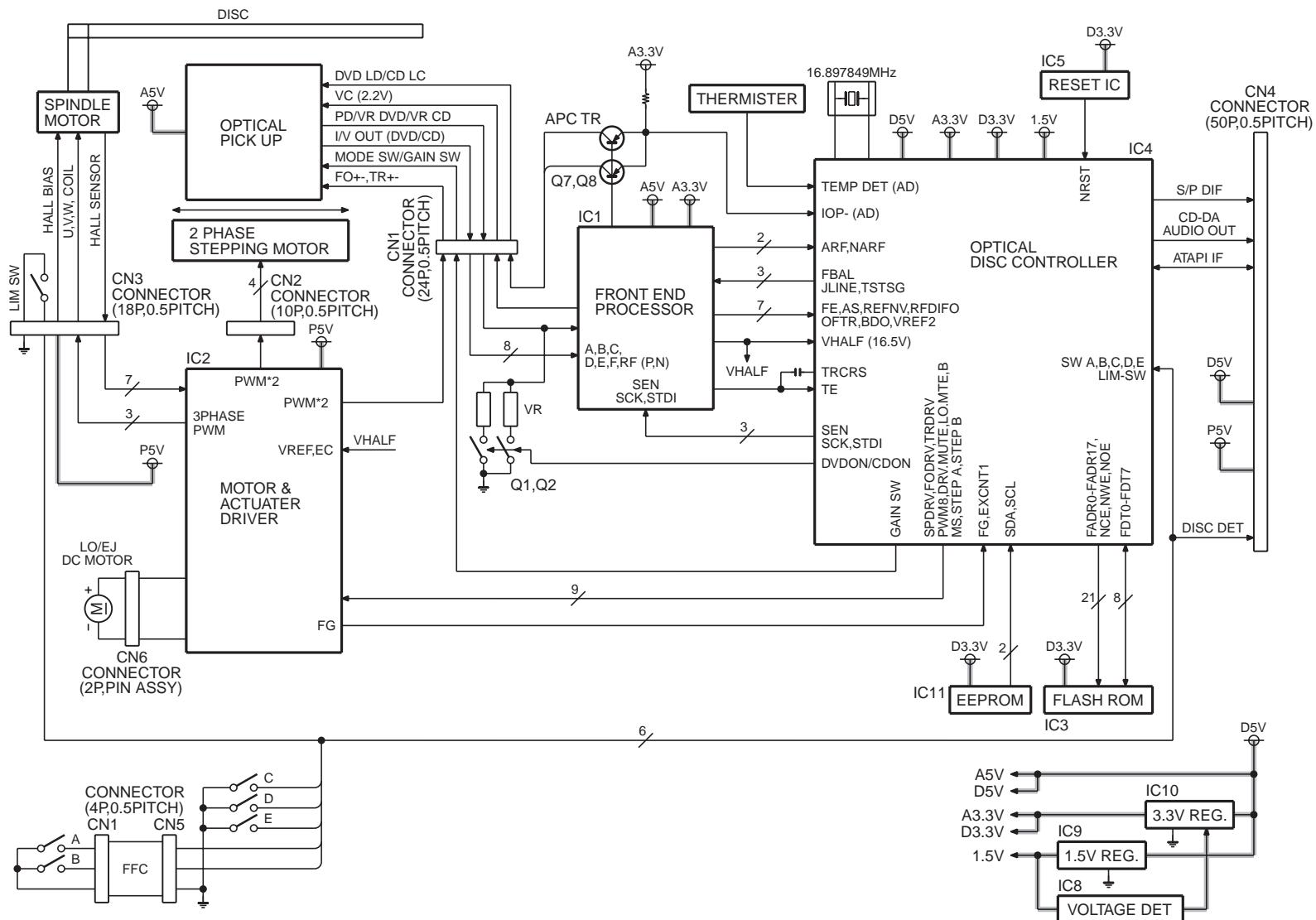


DDX6027/6027Y/7017

DDX7037/7047/7067

# BLOCK DIAGRAM

● X37-107 (DVD mechanism)



## COMPONENTS DESCRIPTION

### ● VIDEO CONTROL UNIT (X14-957/958x-xx)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC100	DC-DC power supply IC	SW5V/MECHA7V control
IC101	DC-DC power supply IC	SW3.3V/MECHA7.5V control
IC102	DC-DC power supply IC	BL8.5V, ±7V control
IC103	Regulator IC	Backup 5V generation
IC104	Regulator IC	Backup 3.3V generation
IC108	Regulator IC	IC601 2V generation
IC200	E2PROM	Memory for μ-com
IC203	Motor driver IC	Tilt mechanism tilt control
IC204	System microcomputer	For main unit control
IC205	Logic IC (AND)	AND for remote controller + wired remote-controlled
IC206	Resetting IC	For resetting μ-com
IC207	Logic IC (AND*4)	For 3.3V → 5V conversion
IC301	Color differential signal 1H-DELAY	For delaying color differential signal for 1H at the time of PAL
IC303	Color liquid crystal panel driving signal processing IC	RGB signal generation for liquid crystal
IC304	RGB switch	For switching DVD signal and RGB signal coming from X34
IC306	Logic IC (Inverter)	For reversing blank signal coming from X35
IC361	Logic IC (NAND)	HD signal reversal buffer
IC362	PLL built-in synchronization separation IC	HD/VD generation from composite signal after synchronization separation
IC363	Logic IC (Buffer)	Buffer for HD signal
IC364	Logic IC (Buffer)	Buffer for VD signal
IC365	Logic IC (Mono-multi)	HD delaying for OSD-IC
IC366	Logic IC (Inverter)	For VD signal reversal
IC400	MOS-IC for on-screen display	For displaying characters and patterns on the monitor screen
IC401	FLASH ROM	ROM for OSD-IC
IC402	Logic IC (NOR)	For frequency dividing of clock for OSD-IC
IC403	Logic IC (D-FF*4)	For frequency dividing of clock for OSD-IC
IC404	Logic IC (Inverter)	For frequency dividing of clock for OSD-IC
IC405	Logic IC (AND)	For frequency dividing of clock for OSD-IC
IC406	Logic IC (OR)	For frequency dividing of clock for OSD-IC
IC500	Regulator	DVD mechanism 5V generation
IC520	FLASH ROM	For MPEG decoder control program
IC540,541	Logic IC (Inverter)	For 27MHz oscillation
IC560	SDRAM	RAM for temporary storage of decoded signal
IC601	MPEG decoder	IC for decoding MPEG encoded signal
IC650	Video signal LPF + drive IC	For DVD RGB/composite signal
IC651	Regulator	For 5V generation
IC652	Video encoder	Conversion of digital video signal into analog signal
IC654	Video switch	For switching composite signal from DVD composite signal and X34

# COMPONENTS DESCRIPTION

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC701	Ope amp IC	For audio LPF
IC702	Regulator IC	For audio 5V generation
IC703	DAC for audio	Conversion of digital signal into analog signal
IC750	Logic IC (Inverter)	SPDIF driver
IC770	CPLD	Audio DAC control
IC850	Logic IC (NAND)	For frequency dividing of clock for OSD-IC
Q100	NPN digital transistor	For SW14.4V control
Q101	Small signal NPN transistor	For detection circuit for reduced/excess current
Q102	NPN digital transistor	For detection circuit for reduced/excess current
Q103	Small signal PNP transistor	For detection circuit for reduced/excess current
Q104	Small signal NPN transistor	For detection circuit for reduced/excess current
Q105	Small signal PNP transistor	For detection circuit for reduced/excess current
Q106	FET	For SW14.4V generation
Q107	Small signal NPN transistor	For ACC detection
Q108	PNP digital transistor	For PARK detection
Q109	FET	For SW5V/MECHA7V control
Q110	FET	For SW3.3V/MECHA7.5V control
Q111	FET	For BL8.5V, ±7V control
Q112	NPN digital transistor	For detection circuit for reduced/excess current
Q113	Small signal PNP transistor	For fan power supply 12.8V generation
Q114	Small signal NPN transistor	For fan power supply 12.8V generation
Q115	Medium power amplification PNP transistor	For fan power supply 12.8V generation
Q116	Small signal NPN transistor	For fan power supply 12.8V generation
Q120	Small signal PNP transistor	For switching μ-com AD conversion reference voltage BU3.3V/SW3.3V
Q121	NPN digital transistor	For switching μ-com AD conversion reference voltage BU3.3V/SW3.3V
Q122	Small signal PNP transistor	For switching μ-com AD conversion reference voltage BU3.3V/SW3.3V
Q123,124	Small signal NPN transistor	For switching μ-com AD conversion reference voltage BU3.3V/SW3.3V
Q125	Small signal NPN transistor	For detection circuit for reduced/excess current
Q126,127	PNP digital transistor	For detection circuit for reduced/excess current
Q128	PNP digital transistor	For SW14.4V control
Q129	Low-frequency general amplification NPN transistor*2	For SW14.4V control
Q170	NPN digital transistor	For switching DC-DC oscillation frequency
Q172	NPN digital transistor	For switching DC-DC oscillation frequency
Q175	NPN digital transistor	For switching DC-DC oscillation frequency
Q180,181	Small signal NPN transistor	For IC303 7.5V generation (7.5V fluctuates a little)
Q182	Small signal PNP transistor	For IC303 7.5V generation (7.5V fluctuates a little)
Q183	NPN digital transistor	For LLUMI detection
Q184	NPN digital transistor	For REVERSE detection
Q202	NPN digital transistor	For GREEN_LED control

## COMPONENTS DESCRIPTION

Ref. No.	Application / Function	Operation / Condition / Compatibility
Q203	PNP digital transistor	For GREEN_LED control
Q204	NPN digital transistor	For RED_LED control
Q205	PNP digital transistor	For RED_LED control
Q206	PNP digital transistor	For resetting
Q207	NPN digital transistor	For resetting
Q210	Small signal PNP transistor	For μ-com input voltage 5V → 3.3V conversion
Q211	Small signal NPN transistor	For μ-com input voltage 5V → 3.3V conversion
Q212	Small signal PNP transistor	Temperature compensation for DC-DC external oscillation frequency input clamp
Q213	Small signal NPN transistor	DC-DC external oscillation frequency input clamp
Q214	NPN digital transistor	DC-DC external oscillation frequency input stoppage REF voltage input
Q215	Small signal NPN transistor	DC-DC external oscillation frequency input clamp
Q216	NPN digital transistor	DC-DC external oscillation frequency input stoppage REF voltage input
Q217	Small signal NPN transistor	DC-DC external oscillation frequency input clamp
Q218	NPN digital transistor	DC-DC external oscillation frequency input stoppage REF voltage input
Q300	Small signal PNP transistor	For chroma trap switching at the time of PAL
Q301	NPN digital transistor	For IC304 switching control
Q360	NPN digital transistor	For brightness signal input buffer to IC303
Q361	PNP digital transistor	For color signal input buffer to IC303
Q362	PNP digital transistor	For input signal buffer to IC362
Q363	PNP digital transistor	For IC362 NT/PAL control 3.3V → 5V conversion
Q364	NPN digital transistor	For IC362 NT/PAL control 3.3V → 5V conversion
Q390	Small signal NPN transistor	For IC237 3V generation
Q391	Small signal PNP transistor	For IC237 3V generation
Q400	PNP digital transistor	OSD_R buffer
Q401	PNP digital transistor	OSD_G buffer
Q402	PNP digital transistor	OSD_B buffer
Q404,405	Small signal NPN transistor	For OSD-IC clock amp
Q650	PNP digital transistor	For IC652 resetting 3.3V → 5V conversion
Q651	NPN digital transistor	For IC652 resetting 3.3V → 5V conversion
Q652	NPN digital transistor	For RGB_SW reversal
Q653	NPN digital transistor	For DVD composite muting
Q701,702	Small signal NPN transistor	For audio signal muting
Q703	Small signal NPN transistor	For audio signal muting control
Q704	NPN digital transistor	For audio signal muting control
Q705,706	PNP digital transistor	For audio signal muting control

### ● ELECTRIC UNIT (X34-384/385x-xx)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC50	3-terminal regulator IC	8.4V for audio is generated from BU14V

# COMPONENTS DESCRIPTION

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC52	Power supply conversion IC	$\pm 9.0V$ for 5V pre-out is generated from BU14V
IC54	3-terminal regulator IC	5V for video is generated from BU14V
IC100	Power IC	Power amplifier for speaker output
IC150	Operational amplifier	Audio mid-point electrical potential 3.3V, SVR voltage 6.8V buffer
IC151	Electrical volume and Selector IC	Audio volume control, audio signal selection
IC200	Operational amplifier	For 5V pre-out audio signal amplification (Front)
IC201	Operational amplifier	For 5V pre-out audio signal amplification (Rear)
IC202	Operational amplifier	For 5V pre-out audio signal amplification (Sub-woofer)
IC203	Isolation amplifier IC	For audio signal GND isolation (AVIN2)
IC204	Isolation amplifier IC	For audio signal GND isolation (AVIN1)
IC251	RDS decoder IC	For RDS signal processing and demodulation
IC300	Voltage detector	For $\mu$ -com resetting voltage monitoring
IC301	Logic IC (NOR)	Muting control for audio
IC303	Audio microcomputer	For X34 board control
IC400	Video switch	For video signal selection (R)
IC401	Video switch	For video signal selection (G)
IC402	Video switch	For video signal selection (B)
IC403	Synchronization separation IC	For NT/PAL recognition, AVIN/Rear camera auto detection
IC404	Video switch	Video signal selection (Synchronization separation)
IC405	Isolation amplifier IC	For audio signal GND isolation (TV)
IC406,407	Video switch	Video signal selection (For monitoring main unit)
IC408	Video switch	Video signal selection (For AVOUT)
IC413	Logic IC (Multiplexer)	For audio signal selection (For MAIN source)
IC414	Logic IC (Multiplexer)	For audio signal selection (For 2-ZONE sources)
IC415	Video switch	Video signal selection (For monitoring main unit)
IC416	Video switch	Video signal selection (For AVOUT)
IC500	Isolation amplifier IC	For audio signal GND isolation (LX)
IC501	Logic IC (Inverter)	For reversing resetting signal
IC502	Logic IC (Buffer)	Buffer for remote control signal for NAVI
Q6	ANT-CONT SW	Comes on when TUNER source is selected
Q7	P-CONT SW	Goes OFF when STANDBY source is selected
Q8~11	For P-CONT circuit control	Controlling P-CONT circuit
Q12	BU detection SW	Comes ON power supply voltage is about 8.8V or more.
Q13	For EXT-AMP control	Control of external amplifier
Q14	For surge voltage detection	Comes ON when Q15 is ON
Q15	For surge voltage detection	Comes ON when power supply voltage is about 20V or more
Q50	For $\pm 9V$ power supply	Comes ON when Q51 is ON
Q51	For $\pm 9V$ power supply	Comes ON when SW14V is ON
Q52	SW14V power supply SW	Comes on at P-ON
Q54	For BU5V power supply	

## COMPONENTS DESCRIPTION

Ref. No.	Application / Function	Operation / Condition / Compatibility
Q55	A8V oversupply SW	Comes ON when SW14V is ON
Q58	For BU5V power supply	
Q59	A8V power supply	BU14V → 8V for audio is supplied
Q61	V5V power supply SW	Comes ON when SW14V is ON
Q62	SW5V power supply SW	Comes ON at P-ON
Q63	For SW5V power supply	BU5V → SW5V is supplied
Q64	For V5V power supply	BU14V → 5V for video is supplied
Q65~70	For ±9V power supply	
Q150	SVR6.8V, audio 3.3V, IC150 power supply SW	Comes ON when SW14V is ON
Q151	For SVR voltage reduction control	Electric current control of SVR voltage reduction circuit
Q152	SVR6.8V, audio 3.3V, IC150 power supply	Power supply to IC150, voltage supply to Q151
Q200	For audio muting	Audio muting of pre-out front right channel
Q201	For audio muting	Audio muting of pre-out front left channel
Q202	For audio muting	Audio muting of pre-out rear left channel
Q203	For audio muting	Muting at momentary power down, resetting, and audio mute timing
Q204	For audio muting	Audio muting of pre-out rear right channel
Q205	For audio muting	Audio muting of pre-out center channel
Q206	For audio muting	Audio muting of pre-out sub-woofer channel
Q207	For audio muting	Audio muting of AVOUT right channel
Q208	For audio muting	Muting at momentary power down, resetting, and audio mute timing
Q209	For audio muting	Audio muting of AVOUT left channel
Q250	AM power supply SW	Comes ON when AM source is selected.
Q252	For AM power supply	Audio 8V is supplied when AM source is selected.
Q403,404	SW for audio selector control	Converts IC413 µ-com controlled terminal voltage: 5V → 8V
Q405,406	SW for audio selector control	Converts IC414 µ-com controlled terminal voltage: 5V → 8V
Q500	For reversing resetting signal voltage	Reverses signal in order to obtain resetting signal for TV tuner

### ● VIDEO UNIT (X35-458/459x-10)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC1	Inverter control IC	Control and drive of inverter circuit for backlight
IC101	DC/DC converter IC	±12V power supply for VCOM amp, -12.0V/+18.5V LCD power supply
IC203	VCOM amp	VCOM signal amplification amp
IC300	Three states buffer	Start pulse switching SW
IC301	Timing controller IC	LCD module control
IC302	AND	V.SYNC delay buffer
IC303	PLL LPF	LPF for PLL control (VT voltage control)
IC601	Remote controller light receptor IC	Remote controller light receptor
Q1	Dimmer SW	ON/OFF control signal of PWM and put on dimmer on backlight

# COMPONENTS DESCRIPTION

Ref. No.	Application / Function	Operation / Condition / Compatibility
Q2,3	Inverter driver	Inverter circuit driving
Q5	5V AVR	5V power supply for inverter control IC
Q101	Switch	Switch for controlling DC/DC converter
Q102	Switch	Switch for controlling DC/DC converter
Q202,203	VCOM driver	VCOM signal buffer
Q300	Switch	For switching IC205
Q301	VCO	For PLL oscillation
Q302	Touch panel X1 SW	X1 SW: Comes on at panel touch detection or at X-axis input and impresses voltage
Q303	Touch panel Y1 SW	Y1 SW: Comes on at Y-axis input and impresses voltage
Q304	Touch panel X0 SW	X0 SW: Comes on at X-axis input and impresses voltage
Q305	Touch panel Y0 SW	Y0 SW: Comes on at Y-axis input and impresses voltage
Q306	Touch panel Y0/Y1 SW	Y0/Y1 SW: Comes on at Y-axis input and goes off at X-axis input
Q307,308	Buffer	For PLL clock
Q601,602	Switch	SI blinking switch
Q604,605	Switch	Hard resetting switch
Q701	Switch	DISC Illumination switch

## ● DVD UNIT (X37-1070-00)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC1	RF signal processing IC	RF signal processing
IC2	Driver	Driver for motorists/pickup actuators
IC3	FLASH ROM	FW maintenance for optical DISC control IC
IC4	μ-com built-in optical DISC control IC	Optical DISC control in general/ATAPI interface
IC5	Voltage detection IC	For reset of optical DISC control IC
IC8	Voltage detection IC	For monitoring power supply voltage
IC9	S1.5V power supply IC	S5V → S1.5V
IC10	S3.3V power supply IC	S5V → S3.3V
IC11	EEPROM	Data storage for optical DISC control IC
Q1	MOS-FET	DVD laser diode ON/OFF control
Q2	MOS-FET	CD laser diode ON/OFF control
Q7	APC transistor	CD laser diode light emission amount control
Q8	APC transistor	DVD laser diode light emission amount control
Q9	MOS-FET	For CD laser diode protection
Q10	MOS-FET	For DVD laser diode protection
Q11	Resistor built-in transistor	LO-MUTE signal control
Q12	Resistor built-in transistor	FG signal control
Q13	Resistor built-in transistor	BMS signal control
Q14	Resistor built-in transistor	DRMU signal control

## MICROCOMPUTER'S TERMINAL DESCRIPTION

### ● System Microcomputer: 703265YGJ501A (X14: IC204)

Pin No.	Pin Name	Module (physical)	I/O	Application	Processing Operation Description
1	AVREF0				
2	AVSS				
3,4	NC				
5	AVREF1				
6	V_MUTE	VIDEO	O	Video mute	H: MUTE ON
7	HD	VIDEO	I	Graphic	
7	NC		O	OSD	
8	FLMD0	μCOM	I		
9	VDD				
10	REGC				
11	VSS				
12	X1			4.953MHz	
13	X2				
14	RESET	μCOM	I		
15	XT1			32.768kHz	
16	XT2				
17	NC				
18	VD	VIDEO	I	(Graphic)	
18	NC		O	OSD	
19	BU_DET	Power supply	I	Back up detection	H: Reduced electric power detection
20	DISK_DET	DVD_MECHA	I	Disk detection	L: Disc IN
21	ACC_DET	Power supply	I	ACC detection	H: ACC reduced electric power detection
22	MINI_SDATA	PANEL	I	Data input from mini liquid crystal	
23	NC		O		
24	MINI_CLKIN	PANEL	I	Communication clock with mini liquid crystal	
25	BE_MDATA	B/E	O	Data output to B/E-IC	
26	BE_SDATA	B/E	I	Data input from B/E-IC	
27	BE_CLK	B/E	I	Communication clock with B/E-IC	
28	BE_MREQ	B/E	O	Request to B/E-IC	
29	BE_SREQ	B/E	I	Request from B/E-IC	
30	REMO	PANEL	I	Remote controller	
31	S_MUTE	VIDEO	O	Composite signal mute	L: FULL GRAPHIC (OSD), H: OTHER
32	NC				
33	EVSS				
34	EVDD				
35	SDA/E2P_SDA	μCOM	I/O	Access with E2P	
35	SDA/ROM_COR_SDA	μCOM	I/O	Access with E2P at coping with ROM correction	
35	SDA/CHROMA_SDA_SDA	Chroma γ	I/O	Access with chroma γ IC	
36	SCL/E2P_SCL	μCOM	I/O	Access with E2P	
36	SCL/ROM_COR_SCL	μCOM	I/O	Access with E2P at coping with ROM correction	

# MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	Module (physical)	I/O	Application	Processing Operation Description
36	SCL/CHROMA_SCL	Chroma γ	I/O	Access with chroma γ IC	
37	BE_RST	B/E	O	B/E circuit reset	L: RESET
38	POWER_DET	Power supply	I	8.5V over current detection	H: Abnormality detection
39	BL_DET	INVERTER	I	Backlight abnormality detection	H: Abnormality detection
40	B_PON	Power supply	O	SW14 (BU SW)ON/OFF control	H: ON
41,42	NC		O		
43	FSEL1	Power supply	O	DC-DC IC oscillation frequency switching	
44	FSEL2	Power supply	O	DC-DC IC oscillation frequency switching	
45	FSEL_SW	Power supply	O	Control at DC-DC IC FSEL switching	Normal: H, At FSEL switching: L
46	PON	Power supply	O	Power supply ON/OFF control	H: ON
47	MCNT	Power supply	O	Motor driver voltage switching (MECHA7V) (1DIN)	H: 7V, L: 5V
48	RGB_SW	VIDEO	O	RGB signal switching	L: DVD, H: OTHER
49	OSD_CS	OSD	O	OSD-IC chip select (OSD)	
50	OSD_DATA	OSD	O	Data output to OSD-IC (OSD)	
51	OSD_CLK	OSD	O	Clock output to OSD-IC (OSD)	
52	OSD_RST	OSD	O	Resetting OSD-IC (OSD)	
53	WRT_E2P	μCOM	I	Used for E2P writing	
54	POWER_PWM	Power supply	O	DC/DC-IC oscillation frequency control	PWM output. At FSEL switching stopped. (Output L)
55	JIG_EJ	EXTRA	I	2DIN	
56	PWM	INVERTER	O	Liquid crystal brightness control	
57	STATUS0	JIG	O	For monitor mechanism endurance Jig	
58	STATUS1	JIG	O	For monitor mechanism endurance Jig	
59	PANEL_DET	PANEL	I	Front panel attach/detach detection	H: Detached, L: Attached 2DIN L-fixed
60	STATUS2	JIG	O	For monitor mechanism endurance Jig	
61	SH_MDATA	SH-3	O	Data output to SH-3 μ-com (GRAPHIC)	
62	SH_SDATA	SH-3	I	Data input from SH-3 μ-com (GRAPHIC)	OSD is output
63,64	NC		O		
65	SYS_SREQ	BOX	I	Request from BOX μ-com	
66	SYS_MREQ	BOX	O	Request to BOX μ-com	
67	SYS_ON	BOX	O	BOX μ-com ON/OFF control	H: ON, L: OFF
68	SYS_SDATA	BOX	I	Data input from BOX μ-com	
69	SYS_MDATA	BOX	O	Data output to BOX μ-com	
70	SYS_CLK	BOX	O	Communication clock with BOX μ-com	250kHz
71	MINI_CS/MINI_CS	PANEL	O	Communication with mini liquid crystal	
71	MINI_CS/FLASH_SDATA	μCOM	I	For flash writing	
72	MINI_MDATA/MINI_MDATA	PANEL	O	Communication with mini liquid crystal	
72	MINI_MDATA/SUBLED_SW	PANEL	O	Model without mini liquid crystal LED ON/OFF	HI: ON
72	MINI_MDATA/FLASH_MDATA	μCOM	O	For flash writing	
73	MINI_CLK/MINI_CLK	PANEL	O	Communication with mini liquid crystal	
73	MINI_CLK/FLASH_CLK	μCOM	I	For flash writing	

## MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	Module (physical)	I/O	Application	Processing Operation Description
74	OPEN_CLOSE/OPEN_CLOSE	PANEL	I	OPEN_CLOSE key (1DIN)	L: ON
74	OPEN_CLOSE/EJECT	PANEL	I	Tilt mechanism OPEN/CLOSE and eject (2DIN)	L: ON
75	SRC	PANEL	I	Source key	L: ON
76	EJECT	PANEL	I	Eject key (1DIN)	L: ON 2DIN HI-fixed input
77	MINI_PON	PANEL	O	MINI liquid crystal Power supply control	H: ON, L: OFF
78	DSI	PANEL	O	DSI control (1DIN)	
79	ILL_DET	Power supply	I	ILLUMI detection	H: Normal, L: Detect
80	PAK_DET	Power supply	I	Parking detection	H: Normal, L: Detect
81	REV_DET	Power supply	I	Reverse detection	H: Normal, L: Detect
82~84	NC		O		
85	SH_INI	SH-3	O	(GRAPHIC)	
86	SH_STBY	SH-3	I	(GRAPHIC)	
87	SH_SREQ	SH-3	I	Request from SH-3 µ-com (GRAPHIC)	
88	SH_MREQ	SH-3	O	Request to SH-3 µ-com (GRAPHIC)	
89	SH_CON	SH-3	O	(GRAPHIC)	
90	SH_RST	SH-3	O	SH-3 µ-com resetting (GRAPHIC)	
91	TOUCH	SH-3	I	(GRAPHIC)	
92	TOUCH_EN	SH-3	O	(GRAPHIC)	
93	NAVI_L	VIDEO	O		L: NAVI, H: OTHER
94~97	TYPE0~TYPE3	EXTRA	I	Destination setting	Refer to destination setting
98	SUBLED_OFF	Other X35	O	2DIN disc LED control (2DIN)	
99	TMOTOR_M	1DIN_MECHA	O	Monitor mechanism tilt control (1DIN)	
99	TILT_UP	2DIN_MECHA	O	Tilt mechanism control (2DIN)	
100	TMOTOR_P	1DIN_MECHA	O	Monitor mechanism tilt control (1DIN)	
100	TILT_DOWN	2DIN_MECHA	O	Tilt mechanism tilt control (2DIN)	
101	SMOTOR_M	1DIN_MECHA	O	Monitor mechanism slide control (1DIN)	
102	SMOTOR_P	1DIN_MECHA	O	Monitor mechanism slide control (1DIN)	
103	BVSS				
104	BVDD				
105	SW_A	1DIN_MECHA	I	Monitor mechanism detection(1DIN)	2DIN is OUT
106	SW_B	1DIN_MECHA	I	(1DIN)	2DIN is OUT
107	SW_C	1DIN_MECHA	I	Monitor mechanism detection	2DIN is OUT
108	SW_D	1DIN_MECHA	I	Monitor mechanism detection	2DIN is OUT
109	ENABLE	INVERTER	O	Backlight ON/OFF control	H: ON
110	FLMD1	µCOM	I		
111	Y0	Touch panel	O	Touch panel control (OSD)	
112	X1	Touch panel	O	Touch panel control (OSD)	
113	X0	Touch panel	O	Touch panel control (OSD)	
114~117	HPOS1~HPOS4	LCD	O	Display position control	
118~120	MODE1~MODE3	LCD	O	Aspect setting	
121	MIRROR	LCD	O	Rear monitor mirror control	

# MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	Module (physical)	I/O	Application	Processing Operation Description
122	ILL_R	PANEL	O	Key ILLUMI red ON/OFF	H: ON, L: OFF
123	ILL_G	PANEL	O	Key ILLUMI green ON/OFF	H: ON, L: OFF
124	ILL_B	PANEL	O	Mini liquid crystal backlight blue ON/OFF	H: ON, L: OFF
125	NTSC_PAL	VIDEO	O	LCD output signal NT/PAL identification output	H: PAL, L: NTSC
126	LED_SW/SI	Other X35	O	LED blinking control at OPEN/CLOSE (1DIN)	H: Light turn ON, L: Light turned OFF
126	LED_SW/SI	Other X35	O	SI control (2DIN)	H: Light turn ON, L: Light turned OFF
127	LCD_PON	LCD	O	LCD power supply ON/OFF control	H: ON
128~134	NC		O		
135	TL_DET	Power supply	I	Power supply reduced electric power detection	
136	KEY1	PANEL	I	4 key monitor mechanism section (1DIN)	
137	KEY2	PANEL	I	8 key attach/detach panel section (1DIN)	
138	KEY3	PANEL	I	6 key panel section (2DIN)	
139	KEY4	PANEL	I	6 key panel section (2DIN)	
140	R_SENS	1DIN_MECHA	I	Monitor mechanism tilt sensor (1DIN)	
140	R_SENS	2DIN_MECHA	I	Tilt mechanism tilt sensor (2DIN)	
141	PH_DET	1DIN_MECHA	I	Monitor mechanism slide detection (1DIN)	
142	AUTO_DIM	Other X35	I	Auto dimmer input	
143	YDATA	Touch panel	I	Touch data input (OSD)	
144	XDATA	Touch panel	I	Touch data input (OSD)	

## Destination setting of GRAPHIC model and OSD model

CLASSIFICATION	CATEGORY	MODEL NAME	DESTINATION	TYPE3	TYPE2	TYPE1	TYPE0
GRAPHIC	1DIN	KVT-817DVD	K	0	0	0	1
		KVT-827DVD	E	0	0	1	0
		KVT-837DVD	M	0	0	1	1
		KVT-847DVD/867DVD	V/X	0	1	0	0
	2DIN	DDX8017	K	1	0	0	1
		DDX8027	E	1	0	1	0
		DDX8037	M	1	0	1	1
		DDX8047/8067	V/X	1	1	0	0
OSD	1DIN	KVT-717DVD	K	0	0	0	1
		KVT-627DVD/727DVD	E	0	0	1	0
		KVT-737DVD	M	0	0	1	1
		KVT-747DVD/767DVD	V/X	0	1	0	0
		KVT-747DVD	R	0	1	1	1
	2DIN	DDX7017	K	1	0	0	1
		DDX6027	E	1	0	1	0
		DDX7037	M	1	0	1	1
		DDX7047/7067	V/X	1	1	0	0
		DDX7047	R	1	1	1	1

# MICROCOMPUTER'S TERMINAL DESCRIPTION

## ● Audio Microcomputer: 703030YGCJ13A (X34: IC303)

Pin No.	Pin Name	Module (physical)	I/O	Application	Truth Value Table	Processing Operation Description
1	TV_CON	TV	O	Startup requests to TV unit		H: TV unit ON, L: TV unit OFF
2	TUN_SCL	FST	I/O	F/E I2C clock output terminal		
3	NAVI1_RX	NAVI	I	Data from navigation 1		
4	NAVI1_TX	NAVI	O	Data to navigation 1		
5	VISUAL_SW5_1	Visual	O	TV/AVIN2 video switching	⑬	Refer to truth value table
6	EVDD	μCOM				
7	EVSS	μCOM				
8	RGB_SW1	Visual	O	TV/NAVI1/NAVI2 RGB video switching	⑩	Refer to truth value table
9	RGB_SW2	Visual	O	TV/NAVI1/NAVI2 RGB video switching	⑩	Refer to truth value table
10	VSYNC_DET	Visual	I	Vertical synchronization signal detection (for automatic detection of AVIN2)		
11	VISUAL_SW4	Visual	O	TV/Rear view camera video switching	⑫	Refer to truth value table
12	SYS_MDATA	to X14	I	Data from system control μ-com		
13	SYS_SDATA	to X14	O	Data to system control μ-com		
14	SYS_MCLK	to X14	I	Clock from system control μ-com		
15	VSYNC_SW1	Visual	O	Switching for monitoring of NTSC/PAL identification COMP signal and AUTO detection COMP signal	⑭	
16	VISUAL_SW3_2	Visual	O	NAVI1/NAVI2/AVIN1 video switching	⑪	Refer to truth value table
17	PWIC_BEEP	POWER-IC	O	Beep output		
18	IC/VPP	μCOM				
19	VISUAL_SW3_1	Visual	O	NAVI1/NAVI2/AVIN1 video switching	⑪	Refer to truth value table
20	VISUAL_SW2_2	Visual	O	SW5 (or TV)/AVIN2/DVD video switching	⑨	
21	VISUAL_SW2_1	Visual	O	SW5 (or TV)/AVIN2/DVD video switching	⑨	
22	VISUAL_SW1_2	Visual	O	AVIN2/SW5 (or TV)/ SW3 (or NAVI1) video switching	⑧	
23	VISUAL_SW1_1	Visual	O	AVIN2/SW5 (or TV)/ SW3 (or NAVI1) video switching	⑧	
24	VISUAL_SW5_2	Visual	O	TV/AVIN2 video switching	⑬	Refer to truth value table
25	RDS_DATA	RDS	I	RDS decoder DATA input		
26	RDS_QUAL	RDS	I	RDS decoder QUAL input		
27	P_ON_AM	FST	O	AM power supply ON/OFF control		H: ON (When AM is selected), L: Normal
28	RDS_AFS	FST	I/O	Noises detection constant switching		
29	NC		O			
30	MUTE_PRE	MUTE	O	Muting for PREOUT		L: MUTE ON, H: Normal
31	RESET	μCOM				
32	XT1	μCOM				
33	XT2	μCOM				

# MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	Module (physical)	I/O	Application	Truth Value Table	Processing Operation Description
34	REGC	μCOM				
35	X2	μCOM				
36	X1	μCOM				
37	VSS	μCOM				
38	VDD	μCOM				
39	CLKOUT	μCOM				
40	MUTE_AVOUT	MUTE	O	Muting for AVOUT		L: MUTE ON, H: Normal
41	AUDIO_SW1_A	Audio	O	LX/NAV1/SW3 (or TV)/ AVIN1 audio switching (for main)	①	Refer to truth value table
42	AUDIO_SW1_B	Audio	O	LX/NAV1/SW3 (or TV)/ AVIN1 audio switching (for main)	①	Refer to truth value table
43	AUDIO_SW2_A	Audio	O	TV/AVIN1/AVIN2 audio switching (for sub)	②	Refer to truth value table
44	AUDIO_SW2_B	Audio	O	TV/AVIN1/AVIN2 audio switching (for sub)	②	Refer to truth value table
45,46	NC		O			
47	VSYNC_SW2	Visual	O	Switching for monitoring of NTSC/PAL identification COMP signal and AUTO detection COMP signal	⑯	
48	NC		O			
49	P_ON	Power supply	O	SW5V→SW14V power supply ON/OFF control		H: ON, L: Normal
50	ANT_CONT	DC-CN	O	Power antenna control		Hi when selecting FMAM→Antenna UP H: Antenna UP, In other cases Low→Antenna DOWN
51	EXT_CONT	DC-CN	O	External amp control		
52	P_CON	DC-CN	O	External amp power supply control		Hi: During POWER ON (Does not come ON during STANDBY) Low: During STANDBY or POWER OFF
53	PWIC_MUTE	POWER-IC	O	POWER-IC muting control		L: MUTE ON (During POWER/ACC OFF, STANDBY, and at momentary power down)
54	PWIC_STBY	POWER-IC	O	POWER-IC standby control		H: POWER ON, L: POWER OFF
55	BVDD	μCOM				
56	BVSS	μCOM				
57	NC		O			
58	MUTE_0	IC2 VI	O	Muting for IC2 VI OUT0		L: MUTE ON, H: MUTE OFF
59	MUTE_1	IC2 VI	O	Muting for IC2 VI OUT1		L: MUTE ON, H: MUTE OFF
60	MUTE_2	IC2 VI	O	Muting for IC2 VI OUT2		L: MUTE ON, H: MUTE OFF
61	TYPE4	TYPE	I	Destination setting	⑦	Refer to truth value table
62	MUTE_C	IC2 VI	O	Muting for IC2 VI MUX_C		L: MUTE ON, H: MUTE OFF
63	EEPROM_SDA	EEPROM	I/O	Data for EEPROM (ROM correction)		
63	AUD_SDA	IC2 VI	I/O	Data for IC2 VI		

## MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	Module (physical)	I/O	Application	Truth Value Table	Processing Operation Description
64	EEPROM_SCL	EEPROM	I/O	Clock for EEPROM (ROM correction)		
64	AUD_SCL	IC2 VI	I/O	Clock for IC2 VI		
65	LX_CON	LX_M	O	Startup request for slave unit		H: Slave unit ON, L: Slave unit OFF
66	LX_REQ_M	LX_M	O	Communication request for slave unit		
67	LX_MUTE	LX_M	I	MUTE request from slave unit		H: MUTE ON, L: MUTE OFF
68	LX_RST	LX_M	O	Hard resetting to slave unit		H: Reset, L: Normal
69	SYS_MREQ	to X14	I	Request from system control µ-com		
70	SYS_SREQ	to X14	O	Request to system control µ-com		
71	AVDD	µCOM				
72	AVSS	µCOM				
73	AVREF	µCOM				
74	DC_ERR	IC2 VI	I	DC offset detection		When detected: Low
75	LINE_MUTE	DC-CN	I	LINE MUTE detection		Normal: 1.6V, TEL MUTE: 1V or lower NAVI MUTE: 2.5V or higher
76	TYPE2	Type	I	Destination setting	⑦	Refer to truth value table
77	TYPE1	Type	I	Destination setting	⑦	Refer to truth value table
78	TYPE0	Type	I	Destination setting	⑦	Refer to truth value table
79	OEM_TYPE1	OEM	I	OEM destination setting	⑥	Refer to truth value table
80	OEM_TYPE0	OEM	I	OEM destination setting	⑥	Refer to truth value table
81	EEPROM_WRT	EEPROM	I	Write detection at ROM correction		When writing to E2PROM from outside, Hi is input with a jig (Common use SCL and SDA will stop operation) In other cases, Low (Pull-down)
82	TYPE3	Type	I	Destination setting	⑦	Refer to truth value table
83	TUN_IFC_OUT	FST	I	F/E IFC OUT input terminal		H: With station, L: No station
84	TUN_SMETER	FST	I	S-meter input		
85	RDS_NOISE	FST	I	FM noise detection		
86	TV_SDATA	TV	I	Data from TV unit		
87	BU_DET	DC-CN	I	Backup reduced electric power detection		Low at 8.8V or higher Hi at reduced electric power (8.8V or lower)
88	LX_REQ_S	LX_M	I	Communication requests from slave unit		
89	SYS_ON	to X14	I	ON/OFF control from system control µ-com		H: Box unit ON, L: Box unit OFF
90	TV_SREQ	TV	I	Requests from TV unit		
91	TV_MDATA	TV	O	Data to TV unit		
92	TV_MREQ	TV	O	Requests from TV unit		
93	RDS_CLK	RDS	I	RDS decoder CLK input		
94	FLASH_SI	FLASH	I	Data input at the flash writing		
94	LX_DATA_S	LX_M	I	Data from slave unit		
95	FLASH_SO	FLASH	O	Data output at flash writing		

# MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	Module (physical)	I/O	Application	Truth Value Table	Processing Operation Description
95	LX_DATA_M	LX_M	O	Data to slave unit		
96	FLASH_CLK	FLASH	I	CLK input at flash writing		
96	LX_CLK	LX_M	I/O	LX BUS clock		
97	NC		O			
98	TV_JUDGE	TV	I	TV tuner old/new identification		H: Old, L: New
99	TV_CLK	TV	O	Clock to TV unit		
100	TUN_SDA	FST	I/O	F/E I2C data input/output terminal		

## ① Audio Selector 1 (TC4052BFT)

AUDIO_SW1_A	AUDIO_SW1_B	Output	
L	L	IN3	AVIN1
H	L	IN2	TV
L	H	IN1	AVIN2
H	H	IN0	LX

\* Input is reversed by transistor before entering selector.

## ② Audio Selector 2 (TC4052BFT)

AUDIO_SW2_A	AUDIO_SW2_B	Output	
L	L	IN3	AVIN2
H	L	IN2	AVIN1
L	H	IN1	TV
H	H	IN0	Not used

\* Input is reversed by transistor before entering selector.

## ⑥ Destination setting for OEM

Destination	TYPE0	TYPE1
Marketing	0	0
OEM1	0	1
OEM2	1	0
EU Installation	1	1

## ⑦ TYPE4, TYPE3, TYPE2, TYPE1, TYPE0

Category	Model	Destination	TYPE4	TYPE3	TYPE2	TYPE1	TYPE0
1DIN	KVT-717DVD	K	0	0	0	0	1
	KVT-627DVD	E	0	0	0	1	0
	KVT-737DVD	M	0	0	0	1	1
	KVT-767DVD	V	0	0	1	0	0
	KVT-747DVD	X	0	0	1	0	1
	KVT-747DVD	R	0	0	1	1	1
2DIN	DDX7017	K	Reserve	1	0	0	1
	DDX7027	E	Reserve	1	0	1	0
	DDX7037	M	Reserve	1	0	1	1
	DDX7067	V	Reserve	1	1	0	0
	DDX7047	X	Reserve	1	1	0	1
	DDX7047	R	Reserve	1	1	1	1

\* Reserve terminal is pulled down.

## MICROCOMPUTER'S TERMINAL DESCRIPTION

### ⑧ Video Selector 1 (MM1228XFBE)

VISUAL_SW1_1		VISUAL_SW1_2		Output	
L	L			IN1	AVIN1
H	L			IN2	SW4
L/H	H			IN3	SW3 (or NAVI)

### ⑨ Video Selector 2 (MM1228XFBE)

VISUAL_SW2_1		VISUAL_SW2_2		Output	
L	L			IN1	AVIN1
H	L			IN2	SW5 (or TV)
L/H	H			IN3	DVD

### ⑩ RGB\_SW (MM1503 or MM1508 or MM1228)

RGB_SW1		RGB_SW2		Output	
L	L			IN1	NAVI
H	L			IN2	TV
L/H	H			IN3	MUTE

### ⑪ Video Selector 3 (BA7652AF)

VISUAL_SW3_1		VISUAL_SW3_2		Output	
L	L			IN1	NAVI
H	L			IN2	AVIN2
L	H			IN3	Not used
H	H			MUTE	-

### ⑫ Video Selector 4 (MM1503)

VISUAL_SW4		Output	
L		IN1	TV
H		IN2	Rear view

### ⑬ Video Selector 5 (BA7652AF)

VISUAL_SW5_1		VISUAL_SW5_2		Output	
L		L		IN1	TV
H		L		IN2	AVIN2
L		H		IN3	Not used
H		H		MUTE	-

### ⑭ VSYNC Selector (BA7652AF)

VSYNC_SW1		VSYNC_SW2		Output	
L		L		IN1	AVIN2
H		L		IN2	CAMERA
L		H		IN3	AVIN1
H		H		MUTE	-

### About muting of composite signal to X14

- Video Selector 1 is set to SW3 and Video Selector 3 is set to MUTE. Mute timing is at full OSD.

# MICROCOMPUTER'S TERMINAL DESCRIPTION

## ● Disc Controller Microcomputer: MN103S71F (X37: IC4)

Pin No.	Pin Name	I/O	Application
1	SW_2	I	8cm Ej-STOP, Lo-START detection
2	SW_3	I	Lo-START detection
3	CDON	O	CD-LD ON
4	VDD3	-	VDD (3.3V)
5	VSS	-	VSS
6	FG	I	Motor FG input
7	SW_4	I	Lo-END detection
8,9	FADR17,18	O	Address output to FLASH
10	FADR11	O	Address output to FLASH
11	FADR9	O	Address output to FLASH
12	VDD15	-	VDD (1.5V)
13	FADR8	O	Address output to FLASH
14,15	FADR13,14	O	Address output to FLASH
16	NWE	O	Right signal output to FLASH
17,18	FADR16,15	O	Address output to FLASH
19	DRAMVDD15	-	DRAM power supply (1.5V)
20	DRAMVSS	-	VSS for DRAM
21	VSS	-	VSS
22	FADR12	O	Address output to FLASH
23~30	FADR7~0	O	Address output to FLASH
31	VSS	-	VSS
32	VDD3	-	VDD (3.3V)
33~40	FDT0~7	I/O	Data input/output with FLASH
41	NCE	O	Chip select signal output to FLASH
42	FADR10	O	Address output to FLASH
43	NOE	O	Read signal output to FLASH
44	MMOD	I	Test mode switching signal
45	NRST	I	Reset input
46	VSS	-	VSS
47	SCLOCK	I/O	Dwire clock terminal
48	SDATA	I/O	Dwire data terminal
49	TxD/EXTRG0	I/O	Serial transmission/ Dwire trigger terminal
50	RxD/EXTRG1	I/O	Serial reception/ Dwire trigger terminal
51	VDD3	-	VDD (3.3V)
52	OSCI	I	Oscillation input (16.897849MHz)
53	OSCO	O	Oscillation output (16.897849MHz)
54	VSS	-	VSS

Pin No.	Pin Name	I/O	Application
55	OFS_TE	O	CD TE offset cancel output
56	DRV1	O	Drive output for spindle drive
57	DRV2	O	Focus balance adjustment output
58	DVDON	O	DVD-LD ON
59	STEP_A	O	Thread control output A
60	STEP_B	O	Thread control output B
61	Lo/Ej	O	Lo/Ej control terminal
62	LO.MUTE	O	Lo/Ej mute terminal
63	VSS	-	VSS
64	DRV.MUTE	O	Driver mute control
65	BMS	O	Spindle short brake control
66	LIM-SW	I	LIM-SW detection
67	Gain_SW	O	PDIC Gain switching
68	FECKP	O	FEP clock output
69	FE PDT	O	FEP data output
70	FE PEN	O	FEP enable signal
71	DRAMVSS	-	VSS for DRAM
72	DRAMVDD15	-	DRAM power supply (1.5V)
73	DRAMVDD33	-	DRAM power supply (3.3V)
74	VDD3	-	VDD (3.3V)
75	FG	I	Motor FG input
76	TX	O	Output for digital OUT
77	VDD15	-	VDD (1.5V)
78	VSS	-	VSS
79	TSTSG	O	EQ calibration signal
80	VFOSHORT	O	Not used.
81	JLINE	O	J-line setting output
82	BDO	I	Dropout signal input
83	OFTR	I	Off-track signal input
84	AVSSD	-	VSS for analog
85	ROUT	O	MASH Rch audio output
86	LOUT	O	MASH Lch audio output
87	AVDDD	-	VDD (3.3V) for analog
88	VCOF	I	JFVCO control voltage
89	TRCRS	I	Track loss generation signal input
90	AVDDC	-	VDD (3.3V) for analog
91	WBLIN	I	WBL input
92	CSFLT	I	Not used
93	RFIDF	I	Not used

DDX6027/6027Y/7017  
DDX7037/7047/7067

## MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application
94	AVSSC	-	VSS for analog
95	PLFLT2	I	Condenser 2 for PLL
96	PLFLT1	I	Condenser 1 for PLL
97	AVSSB	-	VSS for analog
98	ARF	I	Equivalent RF+ input
99	NARF	I	Equivalent RF- input
100	VHALF	I	Reference voltage 1.65V input
101	RV1	I	VREFH register for reference current power supply
102	VREFH	I	Reference voltage 2.2V input
103	DSL2F	I	Condenser 2 for DSL
104	DSL1F	I	Condenser 1 for DSL
105	AVDDB	-	VDD (3.3V) for analog
106	JITOUT	O	For jitter monitor
107	AVDDA	-	VDD (3.3V) for analog
108	TECAPA	I	Not used
109	AD0 (FE)	I	FE input
110	AD2 (AS)	I	AS input
111	AD1 (TE)	I	TEph/TE3b input
112	AD3 (ENV)	I	RF envelop input
113	AD4 (RFIFO)	I	Push-pull TE input
114	AD5	I	Focus drive AD input
115	AD6	I	Tracking drive AD input
116	AD7 (IOP)	I	Laser diode current measurement
117	AD8 (TEMP_DET)	I	Temperature monitoring input
118	AVSSA	-	VSS for analog
119	PWM0 (FOD)	O	Focus drive output
120	PWM1 (TRD)	O	Tracking drive output
121	VSS	-	VSS
122	VDD3	-	VDD (3.3V)
123	IDGT	O	Not used
124	DTRD	O	Not used
125	MONI0	O	Internal monitor signal
126~130	MONI1~5	O	Internal monitor signal
131	SW_2*3	I	8cm Ej-STOP, Lo-START detection
132	SW_1*5	I	12cm Ej-STOP detection
133	DMARQ	O	DMA request output ATAPI host
134	NIOWR	I	ATAPI host write signal input
135	VDD3	-	VDD (3.3V)
136	VSS	-	VSS

Pin No.	Pin Name	I/O	Application
137	NIORD	I	ATAPI host read signal input
138	IORDY	O	Ready output to ATAPI host
139	NDMACK	I	ATAPI host DMA acknowledge input
140	INTRQ	O	Interruption output to ATAPI host
141	NIOCS16	O	Not used
142	DA1	I	ATAPI host address signal input
143	NPDIAG	I	Diagnosis from ATAPI slave to master
144	DA0	I	ATAPI host address signal input
145	VSS	-	VSS
146	VDD3	-	VDD (3.3V)
147	DA2	I	ATAPI host address signal input
148	NCS1FX	I	ATAPI host chip select signal input
149	NCS3FX	I	ATAPI host chip select signal input
150	NDASP	O	ATAPI drive active/slave
151	HDD15	I/O	ATAPI data input/output
152	HDD0	I/O	ATAPI data input/output
153	HDD14	I/O	ATAPI data input/output
154	HDD1	I/O	ATAPI data input/output
155	HDD13	I/O	ATAPI data input/output
156	VDD3	-	VDD (3.3V)
157	VDD15	-	VDD (1.5V)
158	VSS	-	VSS
159	HDD2	I/O	ATAPI data input/output
160	HDD12	I/O	ATAPI data input/output
161	HDD3	I/O	ATAPI data input/output
162	HDD11	I/O	ATAPI data input/output
163	HDD4	I/O	ATAPI data input/output
164	HDD10	I/O	ATAPI data input/output
165	HDD5	I/O	ATAPI data input/output
166	VSS	-	VSS
167	VDD3	-	VDD (3.3V)
168	HDD9	I/O	ATAPI data input/output
169	HDD6	I/O	ATAPI data input/output
170	HDD8	I/O	ATAPI data input/output
171	HDD7	I/O	ATAPI data input/output
172	VDDH	-	5V reference power supply
173	NRESET	I	ATAPI reset signal input
174	MASTER	I	ATAPI master/slave signal input
175	SCL	O	EEPROM clock output
176	SDA	I/O	EEPROM data input/output

# TEST MODE

## Operation Specifications

### ● Compatible Models for This Test Mode Specification

	1Din GRA	1Din OSD		2Din GRA	2Din OSD	M707
	DSP Exist	DSP Exist	DSP None	DSP Exist	DSP None	DSP None
K	KVT-817DVD	-	KVT-717DVD	DDX8017	DDX7017	KVT-M707
R	-	-	KVT-747DVD	-	DDX7047	-
E	KVT-827DVD	KVT-727DVD	KVT-627DVD	DDX8027	DDX6027	KVT-M707
M	KVT-837DVD	-	KVT-737DVD	DDX8037	DDX7037	-
X	KVT-847DVD	-	KVT-747DVD	DDX8047	DDX7047	-
V	KVT-867DVD	-	KVT-767DVD	DDX8067	DDX7067	-

- Depending on Din/Display Types in the table below, test mode specifications may differ from model to model.
- In this specification, categorizing by 1DIN/2DIN and Graphic/OSD, M707, DSP, and destinations (K/R/E/M/X/V).

Model	Din Type	DSP	Display Type
KVT-8x7DVD	1DIN	Exist	Graphic
KVT-727DVD	1DIN	Exist	OSD
KVT-7x7/627DVD	1DIN	None	OSD
DDX80x7	2DIN	Exist	Graphic
DDX70x7/6027	2DIN	None	OSD
KVT-M707	1DIN	None	OSD

x: Different in accordance with the region code

### ● How to enter the test mode

There are two different ways to enter the test mode as shown below.

- 1) While pressing [SRC key + ATT key] at the same time, reset the unit.
- 2) Connect to Lx connector odd jigging for writing regions (2DIN: When adjusting flicker)

**Note1:** The jig setting is arbitrary. Note that, however, there are functions according the setting SW. (Region/Serial/Security/CPHM)

**Note2:** In the test mode, power supply is cut off after 30 minutes. (This is for making the operation possible without Security input even when the security is On.)

### ● Adjustment items

Items to be adjusted after writing on the EEPROM on which regions have been written.

As for the details of the adjustments, refer to each adjustment item.

- Service Information/Serial Code writing
- Chroma adjustment
- Writing Touch Adjust values
- Screen position adjustment
- Panel mechanism position adjustment
- Writing Security Code (Other than K/R destinations)

### ● How to clear the Security Code

In adjusting K/R destination units, if the unit starts up with Security ON, the Security Code can be cleared in the following manner. (Other than in Test Mode)

- 1) In the e Security ON condition, after resetting or turning power ON after backup OFF, then the session starts with Security Code Input screen.
- 2) With the attached remote control in the Audio SW selected condition, input the code with the following procedure.  
 Procedure 1: "K" input (Press Tenkey [5] 2 times)  
 Procedure 2: "C" input (Press Tenkey [2] 3 times)  
 Procedure 3: "A" input (Press Tenkey [2] once)  
 Procedure 4: "Q" input (Press Tenkey [7] 2 times)

**Note:** If a remote controller other than the attached is used, Pressing Tenkey [7] twice will cause "R" to be input.

If a mistake is made during Procedure 1~4 above, input other remote controller Key. Then, start inputting again from Procedure 1.

- 3) Security Code is complete when the input screen for the Security Code is cleared.

## TEST MODE

### ● Information Screen

Below are display contents of the Information Screen.

- Region Code
- Serial No.
- System µCom Version / Rom Correction Version / Type
- OSD Version
- F/E Version / B/E Version
- Macrovision Version
- Box uCom Version / Rom Correction Version / Type / Span (Tuner frequency Span information)
- DC Offset detection information
- Security Info (BLANK: E2PROM not written, ON/OFF: Normal condition (ON/OFF security is set), ERROR: E2PROM write abnormal)

### ● TOUCH Screen

- Adjust Touch position and write it on E2PROM.
- With 3-point input, write from system µ-com to EEPROM is achieved.
- E2PROM normal/abnormal ending is displayed on screen.

### ● HPOSI Screen

- Screen position adjustment is conducted and the result is stored in E2PROM.

Adjustments are conducted in the following order:

Graphic → DVD → TV → VIDEO → NAVI

- DVD wallpaper is NTSC-fixed.
- E2PROM write normal/abnormal ending is displayed on screen.
- While adjustment is conducted on DVD, TDV-540A (Title 3-Chapter 16) is played.

After Disc Loading, by pressing Tenkey [4] on the remote controller, transition is made to Title 3-Chapter 16.

### ● SERVICE Screen

Shown below are contents of the Service Screen.

- Power On time
- DVD Play time / DVD Eject number of times
- Monitor Open number of times / Monitor Close number of times
- E2PROM Chroma data information
- DC Offset detection information

Writing Serial No.

By pressing the Serial key, transition to the Serial No. Input screen is made.

#### E2PROM Chroma Data Clear

By pressing the Clear key, the E2PROM Chroma data is cleared.

### DC Offset Data Clear

By pressing the Clear key, the E2PROM DC Offset data is cleared.

### ● Chroma Screen

- Chroma adjustment is conducted and the result is stored in E2PROM.
- The setting procedures are conducted with a remote controller.
- Chroma IC adjustment screen (Item setting) → To be written on EEPROM.

Setting item

VCO free run adjustment (00h~FFh)

YGCA gain adjustment (00h~FFh)

Brightness adjustment (00h~FFh)

Contrast adjustment (00h~FFh)

Black limiter adjustment (00h~7Fh)

White limiter peak adjustment (00h~7Fh)

Gamma 1 adjustment (00h~FFh)

Gamma 2 adjustment (00h~FFh)

Rch sub-brightness adjustment (00h~FFh)

Bch sub-brightness adjustment (00h~FFh)

Rch sub-contrast adjustment (00h~FFh)

Bch sub-contrast adjustment (00h~FFh)

VCOM oscillation width adjustment (00h~FFh)

- E2PROM write normal/abnormal ending is displayed on screen.
- Writing region does not clear EEPROM Chroma data. EEPROM chroma data is cleared by the Clear key in the Service screen.

### ● MECHA ADJ Screen

- 2DIN panel adjustment is conducted and the result is stored in E2PROM.
- The voltage values at the time of Full Open/Full Close are written to E2PROM.
- E2PROM write normal/abnormal ending is displayed on screen.

### ● Source / Audio / Setup Screen

- Source/Audio Control/Setup Screen are the same as normal condition.

### ● Display

- Basically, in the Test Mode, screen will be dedicated screen.
- There will be no opening screen.
- Even during seek, the frequency display will be made.
- Touch position display (+) will be made. However, no display will be made in the Touch Adjust screen (In adjustment).

# TEST MODE

## ● Mini Liquid Crystal

- When starting up in the Test Mode, all lights will be lighted.
- All lighted condition will be released by Disp key.

## ● Key

- Tact Key specifications are shown below.

	1DIN (UNIT SP)	1DIN (BOX SP)	2DIN
SRC	As usual	As usual	As usual
VolUp	As usual	As usual	As usual
VolDw	As usual	As usual	As usual
Track (Seek) Up	As usual	As usual	As usual
Track (Seek) Dw	As usual	As usual	As usual
Play/Pause	-	-	Motor driver
AUTO (TI/DISP)	Short: NAVI forced interruption	Motor driver	NAVI forced interruption
Without mini liquid crystal	Long: Motor		
ATT	As usual	Flicker adjustment	As usual
Screen	As usual	As usual	As usual
Mode	As usual	As usual	As usual
V_SEL	V_SEL+AVOUT	V_SEL+AVOUT	V_SEL+AVOUT
FNC	Normal (No Easy)	Normal (NO Easy)	Normal (NO Easy)
Eject	As usual	As usual	As usual

## ● Remote Controller

- Using NA-R300 (SW: AUD), the following operations will be conducted (Normal operation other than the following)

Key code	Item
Direct	Chroma IC adjustment mode ON/OFF (Write)
Band (FM+)	Video mode switching (NAVI/AVIN/DVD)
M/S (AM-)	DVD audio/video confirmation switching
Performance (Play/Pause)	Chroma setting value set/release
Tenkey 7	To previous item of chroma adjustment
Tenkey 8	Chroma setting value change (UP)
Tenkey 9	To next item of chroma adjustment
Tenkey 0	Chroma setting value change (DW)
Tenkey 1 (Preset 1)	DVD 5.1ch audio confirmation switching (DVD source only)
Tenkey 2 (Preset 2)	DC Offset detection check direct switching (CD-CH source only)
Tenkey 3 (Preset 3)	V-IN mirror mode switching
Tenkey 4 (Preset 4)	HPOSI DVD confirmation direct switching

## TEST MODE

### ● Screen Management section

- While in the Test Mode (Including connection with special µ-com/jig), the startup will be with VIDEO screen. → Transition to Test Mode Main screen is made with [FNC] key.
- In coordination with VSEL, AVOUT is also switched. (AVOUT with Graphic and NAVI can be anything.)  
AVIN1 – (AVIN2) – (TV) – R-CAM – NAVI-DVD (NO specific order)
- Easy Control screen can be skipped using [FNC] key.
- Parking detection is ignored in Test Mode. However, Parking is not ignored when Unit is special.
- Reverse condition occurring in Test Mode will be made On condition (VSEL always has RCAM). However, when Unit is special, it will be as usual.  
(When detected, Reverse will cause R-CAM interruption, as usual.)
- Default screen of System Setup will be made System 2.
- Default screen of Audio Setup will be made Speaker Setup.
- Default speaker selected of Speaker Setup will be made Sub-woofer.
- When VIDEO 1 video is input or at signal switching (NTSC ↔ PAL) will not be OSD displayed. (OSD display will be made at VSEL switching. Display will not be made at the time of VIDEO 1.)

### ● BEEP Control

- Beep will be sound regardless of destinations  
(When Standby sourcing, Beep will not be sound as PWIC limitation item.)

### ● SI Control

- Default of SI will be On.

### ● AVIF

- AVIN2 (AVIN1 for models with no AVIN2) Interruption will be made default On.
- NAVI interruption SP setting will be default FRONT ALL.
- V-IN mirror mode switching will be conducted with remote controller Tenkey [3].
- R-CAM Interruption will be made default On.

### ● SCREEN Adjustment

- Default is center. With one click, FullDown ↔ Center ↔ FullUp.
- Default for BRT is MAX.

### ● Audio

- Default for Volume is Step 30.
- Bal/Fad setting is one click: Min ↔ Center ↔ Max
- Default for LineMute is On.
- Xover setting is one click: Min ↔ Max
- Tone setting is one click: Min ↔ Center ↔ Max
- Default for Tone (EQ) is Flat.
- Default for SystemQ is OFF.
- When equipped with Digital Out terminal, setting will be for always output On.

### ● TUNER

- When E2PROM cannot be accessed, Error display will be made. (Tuner screen)
- Forced Narrow/ Middle/ Wide switching of K3I.  
By long pressing of Preset 4: Forced Narrow (\*\*.\*1MHz)  
By long pressing of Preset 5: Forced Middle (\*\*.\*2MHz)  
By long pressing of Preset 6: Forced Wide (\*\*.\*3MHz)

### ● DVD

- CD media KTD-02A and DVD media, TDV-540A/TTD-100 are used.
- When Test Mode is started up in with Disc and Panel Open condition, the disc will not be ejected (The same as usual)
- Region code is set at the minute position of the time code.
- At time of CDDA media, RDM key will cause transfer to Track 28.
- At time of CDDA media ,pressing TrackUP key will cause: 9 → 15 → 10 → 11 → 12 → 13 → 14 → 9.
- When loading, Title1-Chapter1 (Indicated with ★ in table next page)

## TEST MODE

- DVD audio/video confirmation (TDV-540A)

For DVD video confirmation

Title	Chapter			
★ 1	1			Audio Stream 1
3	6	Level		Audio Stream 1
3	7	S/N		Audio Stream 1
3	17	AM/PM noise		Audio Stream 1
3	8	Frequency characteristics		Audio Stream 1
3	12	Color bar measurement		Audio Stream 1

DISC DW (M/S)

For DVD audio confirmation

Title	Chapter			
1	1			Audio Stream 1
4	1	1kHz 0dB	PCM48k/24bit	Audio Stream 2
4	6	7Hz	PCM48k/24bit	Audio Stream 2
4	16	22kHz	PCM48k/24bit	Audio Stream 2
4	2	infinity	PCM48k/24bit	Audio Stream 2
4	3	L	PCM48k/24bit	Audio Stream 2
4	4	R	PCM48k/24bit	Audio Stream 2
4	1	1kHz 0dB	Dolby	Audio Stream 1
4	2	infinity	Dolby	Audio Stream 1

- 5.1ch audio confirmation (TTD-100)

For DVD audio confirmation

Title	Chapter			
★ 1	1			Audio Stream 1

Tenkey 1 (Preset 1)

For DVD audio confirmation

Title	Chapter			
3	1			Audio Stream 1

**Note:** At the time of confirming 5.1ch audio, as DISC determination (TDV-540A/TTD-100) cannot be conducted, key operations for Chap Up/Dw, DISC DW (M/S) will be made ineffective when playing Title 3-Chapter 1

- HPOSI video adjustment (TDV-540A)

For DVD video HPOSI confirmation

Title	Chapter			
★ 1	1			Audio Stream 1

Tenkey 4 (Preset 4)

For DVD video HPOSI confirmation

Title	Chapter			
3	16	Monoscope		Audio Stream 1

## TEST MODE

### ● Flicker Adjustment (Jig is connected to Lx)

- 1) When Jig is connected to Lx and power is turned On, then flicker adjustment comes On.  
**Note:** The jig setting will be arbitrary. However, note that setting SW will be active. (Region/Serial/Security/CPPM).
- 2) Screen Mode is to be set to ZOOM and Video is to be set to VIDEO.
- 3) After starting up with flicker adjustment On, Key illumination/disc illumination is lighted up in cycle: Green ↔ Red (with one second interval.)
- 4) To turn flicker adjustment Off, turn power Off.

### ● DC Offset

- Clearing DC Offset detection (normal/abnormal)  
By the use of DC Offset information clear key in the Service Information Screen, DC Offset detection information on E2PROM will be cleared.
- DC Offset detection information will be displayed on Information screen/Service Information screen.
- During Test Mode, even if DC Offset is detected, this will not be written to E2PROM.
- By pressing remote controller Tenkey 2 (Preset 2), the Volume setting will be switched to the following setting values.

Source: CD-CH

Designated disc: KTD-02A

Designated Track: 15 (20Hz, 0dB)

DISC/TRACK designation is conducted manually

Designated Vol: 29

### ● Specification to turn motor driver ON with no slide mechanism

- In the condition where designation key is pressed down, motor driver port is turned On.  
With the [Play/Pause] key below depress, the motor is turned in reverse direction with the first key ON. With the [Play/Pause] key OFF, motor stops.  
With the [Play/Pause] key ON for the second time, motor turned in forward direction. With the [Play/Pause] key OFF, motor stops. This goes on thereafter.

### ● Backup Memory

- During the Test Mode, Backup Memory function does not work. (Back up is conducted 30 minutes after Reset and then every one hour)

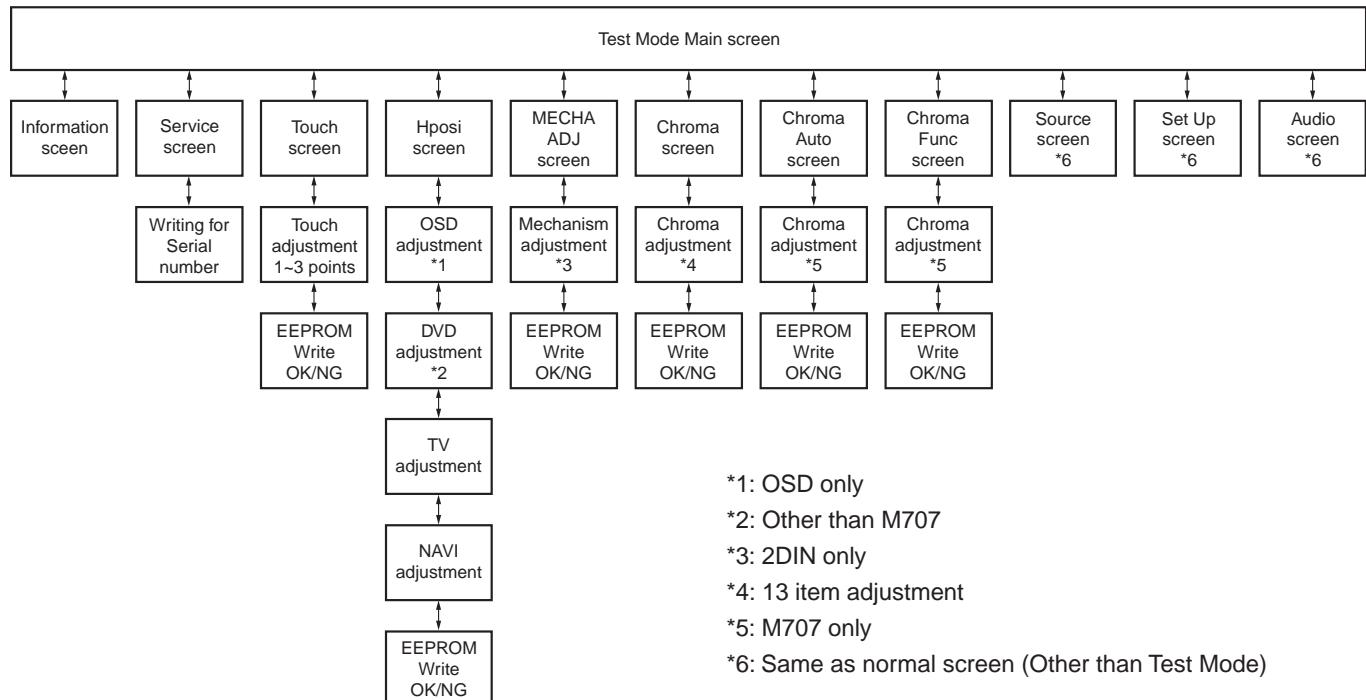
### ● Clearing E2PROM contents

- E2PROM contents that should not remain at shipping is cleared.  
[SRC] key + [AUTO (TI/DISP)] key + Reset clears the memory content.
  - DC Offset information
  - Memory function
  - Storefront mode information
  - Service information
- When jig is connected to write region, the following contents will be cleared.
  - Serial Number
  - DC Offset information
  - Security Code
  - Memory function
  - Touch compensation
  - Storefront mode information
  - HPOSI data
  - Service information
  - Mechanism position adjustment values

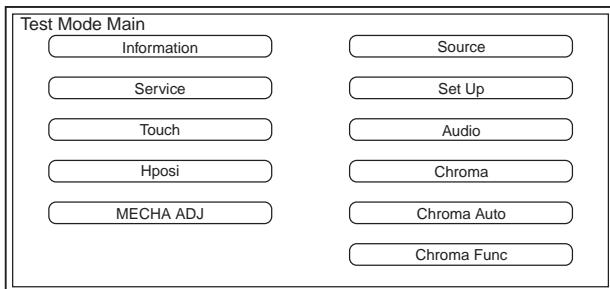
# TEST MODE

## Screen Specifications

- During the Test Mode, when Graphic Screen is selected, Test Mode Main screen is displayed.



### ● Test Mode Main Screen

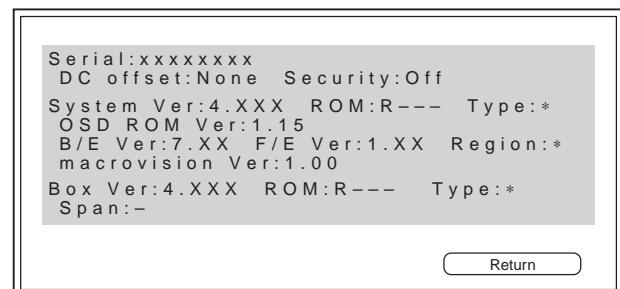


### Key Specification

- Information: Information Screen is displayed.
- Service: Service Screen is displayed.
- Touch: Touch Screen is displayed.
- Hposi: Hposi Screen is displayed.
- MECHA ADJ: MECHA ADJ Screen is displayed. (2DIN only)
- Source: Source Screen is displayed.
- Set Up: Set Up Screen is displayed.
- Audio: Audio Screen is displayed.
- Chroma: Chroma Screen is displayed.
- Chroma Auto: Chroma Auto Screen is displayed. (M707 only)
- Chroma Func: Chroma Func Screen is displayed. (M707 only)

### ● Information Screen

- Serial No./μ-com version information/Region Code/Various conditions, etc. are displayed.



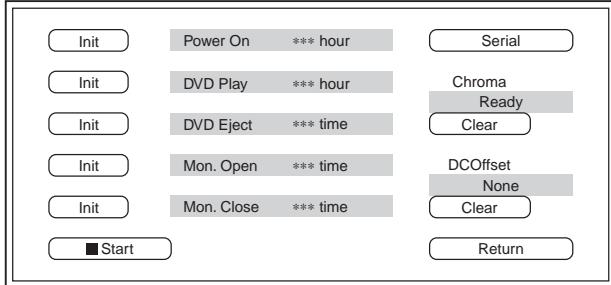
### Key Specification

- Return: Test Mode Main Screen is displayed.

## TEST MODE

### ● Service Screen

- Service information is displayed/cleared.
- EEPROM Chroma data is cleared.
- DC Offset detection information is displayed/cleared.



#### Key Specification

- Init: Items to be initialized are selected.  
 ■Start : Items that are selected with long-press (1 second or more) are initialized.  
 Serial: Serial No Manual Input Screen is displayed.  
 Clear: EEPROM Chroma data is cleared.  
 Clear: EEPROM DC Offset information data is cleared.  
 Return: Test Mode Main Screen is displayed.

**Note:** As for DVD related items, those other than M707.

**Note:** The key arrangements are somewhat different for OSD model and Graphic model.

#### Adjustment Procedure

##### Service Information

- Select those items to be initialized by pressing Init Key. (More than one can be selected. / Those items that are selected are focus displayed.)
- When selection is complete, press Start Key for 1 second or more. The Service Information displayed is initialized.

##### Chroma

- Chroma information is normally Ready-displayed. When EEPROM data is cleared, Clr OK/NG is displayed.
- At the time of Clear, if not reset, When Chroma Adjustment Screen is displayed., the previous data is maintained. It is only after resetting that the cleared data is reflected.

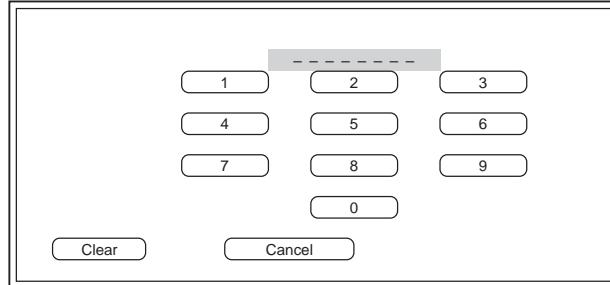
##### DC Offset

- As for DC Offset information, None means no detection and Detect means information detected.
- With Clear key, detection information is cleared.

### ● Serial Number Input Screen

- The serial number for each set is written.

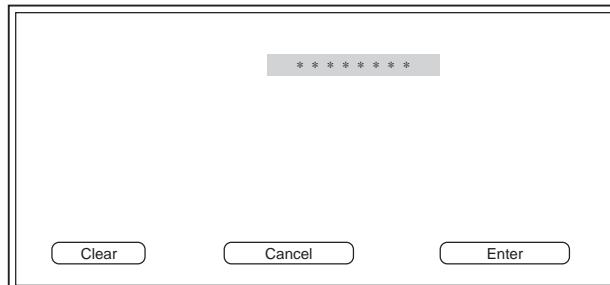
#### Serial Number Input Screen



#### Key Specification

- 0~9: 10Keys for Serial Number Input  
 Clear: Serial number being input is cleared.  
 Cancel : Service Screen is displayed.

#### Serial Number Input writing Screen



#### Key Specification

- Clear: Serial number being input is cleared.  
 Cancel: Service Screen is displayed.  
 Enter: Serial Number writing start (Write OK means normal ending. write NG display means error. )  
 When OK, Service Screen is displayed with this key.  
 When NG, enter the Test Mode again, and re-do from the beginning.

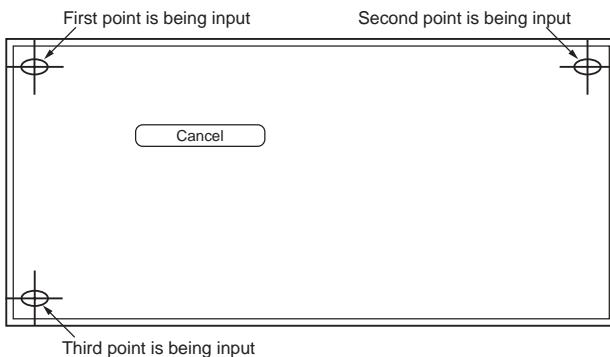
**Note:** The key arrangements are somewhat different between OSD model and Graphic model.

## TEST MODE

### ● Touch Screen

- Touch variances in different sets are adjusted.
- Touch the markers for three points in order. When EEPROM OK screen is displayed, adjustment is complete.

Touch input in progress



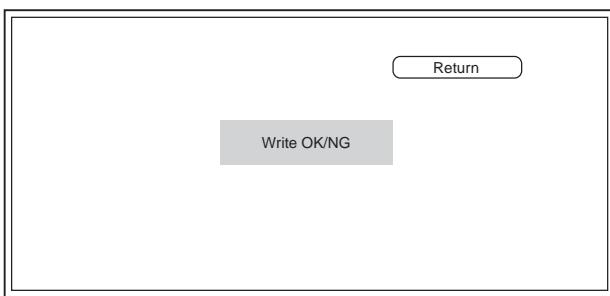
### Key Specification

Cancel:

The first point is being input. Test Mode Main Screen is displayed.

The second point is being input which will move on. Transit to the first point being input.

EEPROM writing complete OK/NG Screen



### Key Specification

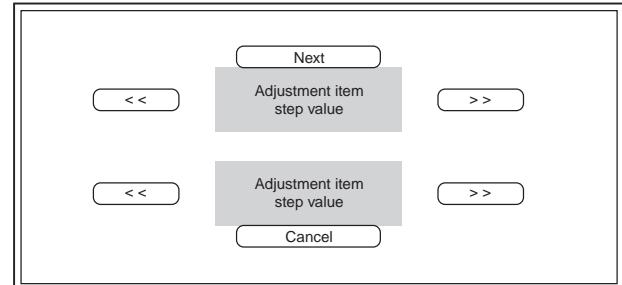
Return: Test Mode Main Screen is displayed.

**Note:** When NG, enter the Test Mode again, and re-do from the beginning.

### ● Hposi Screen

- Horizontal position for each screen is adjusted.

Hposi Adjustment screen



### Key Specification

Next: To next Hposi adjustment screen. When in NAVI screen, EEPROM writing will begin.

<< : The screen moves to the left.

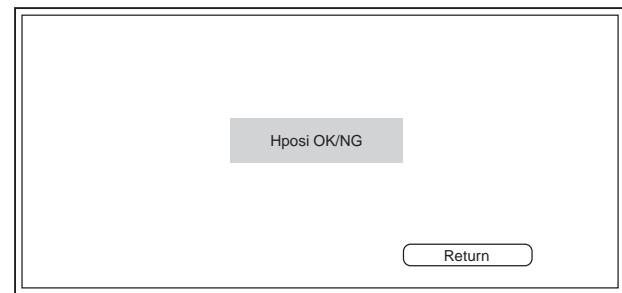
>> : The screen moves to the right.

Cancel: Test Mode Main Screen is displayed.

**Note:** The key arrangements are somewhat different with OSD model and Graphic model. (With the Graphic model, one adjustment item per one screen.)

**Note:** There is no need for the upper column (Graphic) of the first adjustment screen of the OSD model to be adjusted.

EEPROM writing compete OK/NG Screen



### Key Specification

Return: Test Mode Main Screen is displayed.

**Note:** In case of NG, enter the Test Mode again and re-do from the beginning.

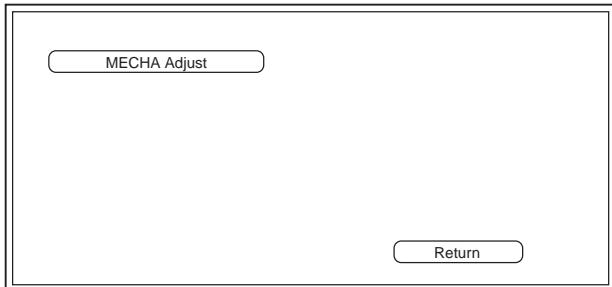
**Note:** The key arrangements are somewhat different with OSD model and Graphic model.

## TEST MODE

### ● MECHA ADJ Screen

- Panel mecha position adjustment is to be conducted.

MECHA ADJ screen

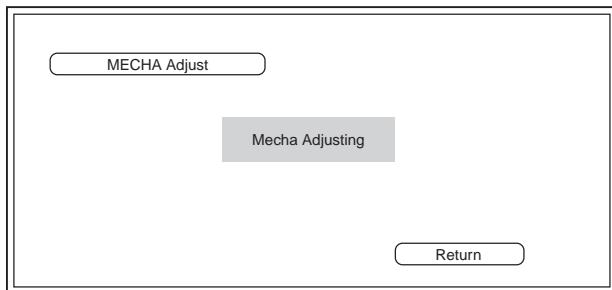


#### Key Specification

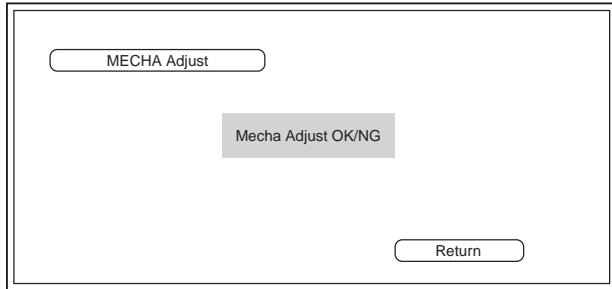
MECHA Adjust: Mecha position adjustment will begin.

Return: Test Mode Main Screen is displayed.

MECHA Adjust in progress



MECHA Adjust complete

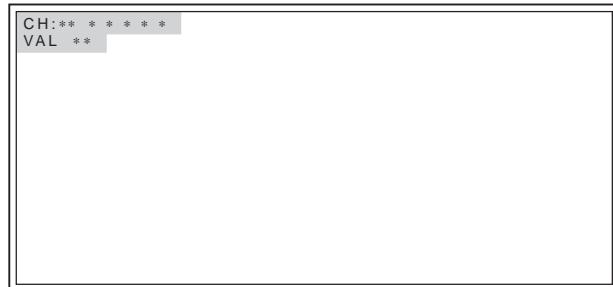


**Note:** In case of NG, enter the Test Mode again and re-do from the beginning.

### ● Chroma Screen

- Chroma data adjustment will be conducted.
- Adjustment is conducted with a remote controller (Audio SW).

**Note:** Chroma data on the EEPROM can be cleared with the Clear key in the Service screen.



#### Key Specification (Remote Controller)

Direct : Chroma IC Adjustment Mode ON/OFF (EEPROM writing)

Play/Pause: Chroma setting value Confirm/Rehearse

Tenkey 7: Chroma adjustment To the next item.

Tenkey 8: Chroma setting value change (UP)

Tenkey 9: Chroma adjustment To the next item.

Tenkey 0: Chroma setting value change (DW)

### ● Source / Set Up / Audio Screen

- The same as the normal screen (Other than Test Mode). However, when SetUp key and Audio key are pressed, returns to Test Mode Main screen.

### ● Security Code Writing Screen

- Security code is managed in pair with serial number. Security Code is written in this screen. (Other than K/R destinations)

From Set Up screen, press Security Set Up key.

In case of other than K/R destinations, only when EEPROM Security Code is blank, Set key is displayed. Press the key.

The same operation as the regular Security Code registration is to be conducted in the Security Code Writing screen. When Enter key is pressed, writing begins.

**Note:** The Security Code to be input here must be the unique code of the set linked with the serial number.

When "Complete" is displayed, normal ending. When NG is displayed, error.

**Note:** In case of NG, enter the Test Mode again and re-do from the beginning.

# ADJUSTMENT

## ● Adjustment item

1. Chroma IC adjustment (X14)  
(A remote controller is used for adjustment, while confirming on the waveform with an oscilloscope.)
2. PLL\_CLK/OSD\_HSYNC phase adjustment (X14)  
(A variable resistor is used for adjustment while confirming on the waveform with an oscilloscope.)
3. Freerun adjustment (X35)  
(A variable resistor is used for adjustment while confirming on the waveform with an oscilloscope.)
4. Flicker adjustment  
(A remote controller is used for adjustment, while confirming on the waveform with an oscilloscope.)
5. Screen position adjustment  
(A touch panel is used for adjustment, while confirming the screen.)
6. Touch Panel Adjustment  
(A touch panel is used for adjustment.)

## 1. Chroma IC Adjustment Procedure (X14)

1. While pressing on the [ATT] + [SRC] keys on the unit, reset to enter the Test Mode.
  2. Press [DIRECT] key on the TV remote controller to get into the Chroma IC Adjustment mode.  
→ At this point "CH : 16 VCO\_FREERUN VAL 80" is displayed on upper left corner. (VAL value is displayed in HEX.)
  3. Perform adjustments in Tables A~M in the order of a~c, one by one.
    - a. Use [8] and [0] of 10Key to change the setting value. → The values in the VAL on the upper left corner of screen.
    - b. Press [PLAY/PAUSE] key to confirm the setting values.  
→ When confirmed, the color of "CH : 16 VCO\_FREERUN VAL 80" changes.
    - c. Use [7] and [9] of 10Key to move to the next setting. → The CH value in the upper left corner of screen changes.
  4. Press [DIRECT] key to write data to E2PROM.
  5. Press [DIRECT] key again to move out of Chroma Adjustment mode.
- \* Conduct this in AUDIO mode using TV/NAVI remote controller.

	Adjustment Item	Test Mode Display	Adjustment Method	Adjustment Value (Temporary)	Condition
A	Chroma VCO Adjustment	CH : 16	Connect TP: HD between R249 and R250 and TP: VD between R248 and R251 to GND. Measure TP: TC_HD of IC237 32 pin with a frequency counter.	NTSC type 15.734±50Hz PAL type 15.625±50Hz	Input signal : None Input signal : 10 STEP (NTSC)
F	Y GCA (Brightness Gain) Adjustment	CH : 2	Monitor waveform of 59 pin TP: VG of CN905 with an oscilloscope and adjust the oscillation width of forward rotation-side pedestal and forward rotation-side Step 10.	2.6V±0.05V	1Vpp V/S ratio : 7:3 (75Ω terminated) X34 AVIN input
B	Brightness Adjustment	CH : 6	Monitor waveform of 59 pin TP: VG of CN905 with an oscilloscope and adjust the oscillation width of forward rotation-side Step 1 and reverse rotation-side Step 1.	3.2V±0.05V	Oscilloscope range : 500mV/DIV AC
C	Contrast Adjustment	CH : 13	Monitor TP: VG waveform of 59 pin of CN905 with an oscilloscope and adjust the oscillation width of forward rotation-side Step 8 and reverse rotation-side Step 8.	3.0V±0.05V	
D	Black Limiter Adjustment	CH : 5	Maintain and confirm 7F and move on to the next step.	7F	
E	White Limiter Adjustment	CH : 10	Monitor waveform of 59 pin TP: VG of CN905 with an oscilloscope and adjust the oscillation width of forward rotation-side Step 9 and reverse rotation-side Step 9.	3.2V±0.05V If lower than 3.2V, finalize with 7F. (However, 2.7V or less is NG.)	

## ADJUSTMENT

	Adjustment Item	Test Mode Display	Adjustment Method	Adjustment Value (Temporary)	Condition
G	Gamma 1 Adjustment	CH : 11	Monitor waveform of 59 pin TP: VG of CN905 with an oscilloscope and adjust the oscillation width of forward rotation-side pedestal and forward rotation-side Step 9.	3.0V±0.05V	Input signal : None Input signal : 10 STEP (NTSC) 1Vpp V/S ratio : 7:3 (75Ω terminated)
H	Gamma 2 Adjustment	CH : 12	Monitor TP: VG waveform of 59 pin of CN905 with an oscilloscope and adjust the oscillation width of forward rotation-side pedestal and forward rotation-side Step 10.	3.3V±0.05V	X34 AVIN input Oscilloscope range : 500mV/DIV AC
I	R Sub-Brightness Adjustment	CH : 8	Monitor waveform of 58 pin TP: VR and 59 pin TP: VG of CN905 with an oscilloscope and adjust so that the pedestal of Step 1 of the forward rotation side of TP: VR will be 0.1Vpp higher than the pedestal of Step 1 of the forward rotation side of TP: VG.	0.1V±0.05V	
J	B Sub-Brightness Adjustment	CH : 9	Monitor waveform of 60 pin TP: VB and 59 pin TP: VG of CN905 with an oscilloscope and adjust so that the pedestal to Step 1 of the forward rotation side of TP: VB will be the same as the pedestal to Step 1 of the forward rotation side of TP: VG.	0V±0.05V	
K	R Sub-Contrast Adjustment	CH : 14	Monitor waveform of 58 pin TP: VR and 59 pin TP: VG of CN905 with an oscilloscope and adjust so that the pedestal to Step 9 of the forward rotation side of TP: VR will be 0.1Vpp higher than the pedestal to Step 9 of the forward rotation side of TP: VG.	0.1V±0.05V	
L	B Sub-Contrast Adjustment	CH : 15	Monitor waveform of 60 pin TP: VB and 59 pin TP: VG of CN905 with an oscilloscope and adjust so that the pedestal to Step 9 of the forward rotation side of TP: VB will be the same as the pedestal to Step 9 of the forward rotation side of TP: VG.	0V±0.05V	
M	V-COM Amplitude Adjustment	CH : 1	Monitor waveform of 39 pin TP: VCOM of CN905 with an oscilloscope and adjust the oscillation width of the VCOM rectangular wave.	2.15Vpp±0.05V	

# ADJUSTMENT

## 2. OSD (On Screen Display) Clock and OSD\_HSYNC Phase Adjustment (X14: VR361)

### Condition

Set video source: VIDEO

Input: Video of NTSC (Video: Color bar)

Screen mode: NORMAL

### Adjustment Procedure

- When started up in Test Mode, it will start up with VIDEO source (FULL).  
Menu screen ↔ VIDEO can be switched with [F] key.
- In the VIDEO screen, press Screen MODE switching key and switch to NORMAL screen.

### 3. Refer to Figure 1.

Monitor IC400 11pin TP402 (HYSNC) and IC400 2pin TP403 (OSC IN) with an oscilloscope.

Trigger with HSYNC.

When the waveform cannot be accurately monitored due to lack of oscilloscope capability and/or probe capacity, use HSYNC: TP404 and OSC\_IN: TP405.

In that case, the wave oscillation width will be smaller.

- As shown in Figure 2, adjust so that the difference between rising edge of HSYNC and the rising edge of OSD\_CLK, when its L-period is long, would be  $16.0 \pm 5\text{nsec}$ .

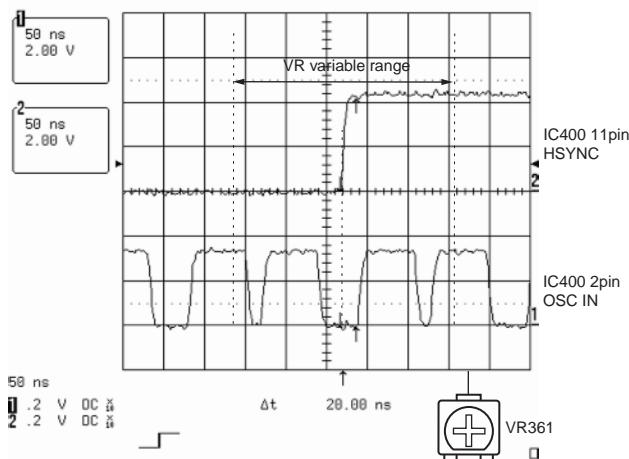


Fig. 1 CH1 HSYNC, CH2 OSD\_CLK  
variable resistor center

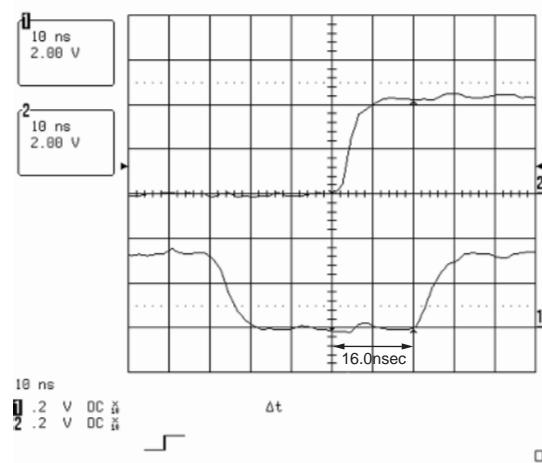


Fig. 2 CH1 HSYNC, CH2 OSD\_CLK (Enlarged)

# ADJUSTMENT

### **3. Freerun Frequency Adjustment (X35: VR301)**

No.	Adjustment Method	Measurement Location			Adjustment Location	Adjustment Value
		Timing controller IC301	1DIN X35-448	2DIN X35-458		
1	Set TP of NVD TP as no input and connect to PON3.3V.	NVD (21pin)	TP363B	TP55		
	Set TP of NHD TP as no input and connect to PON3.3V.	NHD (22pin)	TP304B	TP17		
2	Adjust frequency of HSYNC with a frequency counter.	NDSH (9pin)	TP307B	TP106	VR301	15.734kHz±0.01kHz (NTSC type) 15.625kHz±0.01kHz (PAL type)

#### **4. Flicker Adjustment (X35: VR203)**

### Condition (As usual)

Video source: VIDEO

Video: Luster white 30~50%

BRIGHT: MAX

MODE: ZOOM

## Adjustment Procedure

1. Set to the above condition.
  2. Vary VR203 and adjust so that the side width that appears on screen top would become smallest.

### Screen Adjustment Key (HPOSI)

: Horizontal display start position adjustment of entire screen

## OSD Adjustment Key

: Horizontal display start position adjustment of OSD only

## About the video for adjustment screen

DVD: Monoscope (TDV-540A, Title : 2, Chapter : 16)

## TV: Monoscope

## VIDEO1: Monoscope

Navigation: Input KNA-DV3200

For NTSC area destination: NTSC video

For PAL area destination : PAL video

- \* As for TV tuner Box, use the TV Tuner Box suited for each destination.

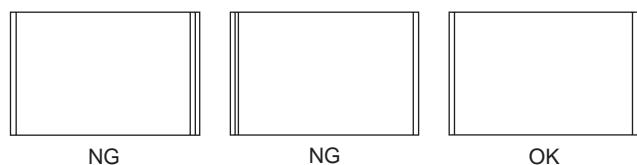
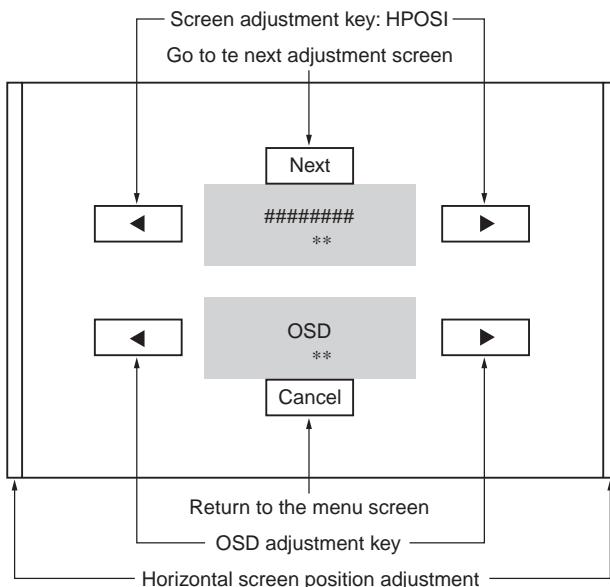
\* NAVI screen is NAVI Menu Screen.

### Adjustment Procedure

1. Press HPOSI on Test Mode Menu Screen.
  2. Adjust HPOSI display start position of the following five;  
Graphic/DVD/TV/VIDEO/Navigation.
  - 3-1. Graphic

Use OSD key to adjust so that background is not seen on both sides of screen.

HPOSI key is not to be used. Pay attention not to used it, as it can be operated on.



# ADJUSTMENT

## 3-2. DVD

Insert TDV540 disk and, when a picture of an airplane appears, and press 4-key on the remote controller. (DVD Mode) Then, Monoscope is displayed.

At first, use OSD key to adjust so that background is not seen on both sides of screen.

Then, use the Screen Adjustment key so that the Monoscope is symmetric on right and left sides.

## 3-3. TV/VIDEO

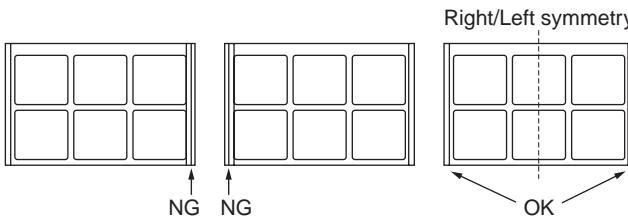
At first, use OSD key to adjust so that background is not seen on both sides of screen.

Then, use the Screen Adjustment key so that the Monoscope is symmetric on right and left sides.

## 3-4. NAVI

At first, use OSD key to adjust so that background is not seen on both sides of screen.

Then, use the Screen Adjustment key so that the NAVI Menu screen is symmetric on right and left sides.



After adjustment, press the [Next] key. If "Hposi OK" is displayed, the adjustment is complete.

**Note:** If the display does not come at the dead center when adjusting the horizontal display start position (when adjusting one step left, the picture is to the left and, when adjusting one step to the right, the picture is to the right), press [NEXT] key with the position to the right and finalize the adjustment. (This is the condition in which the screen is to the right by one or two dots.)

## 6. Touch Panel Adjustment

### Adjustment Procedure

1. Press the Touch Key in the Menu screen of the Test Mode and enter the Touch Panel Adjustment screen.

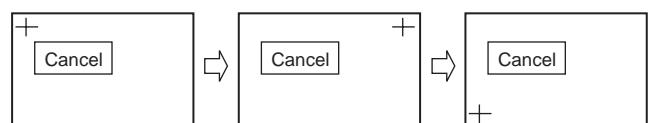
2. Touch the center section of the +-mark below in the following order.

Upper left → Upper right → Lower left.

When making the touch, be sure to use the touch stick designated.

3. After adjusting at three points, when "Write OK" is displayed, the adjustment is complete.

By pressing Return, Touch adjustment will be exited.



\* If the central section of the +-mark has not been pressed accurately, press Cancel and re-do from the beginning.

### **Note:**

As far as the Touch Panel Adjustment data is concerned, the data is finalized when the touch is let go.

For this reason, the knack for adjustment is not to let go the touch after touching the center section of the +-mark.

After making the touch, first confirm that the touch is at the dead center of the +-mark.

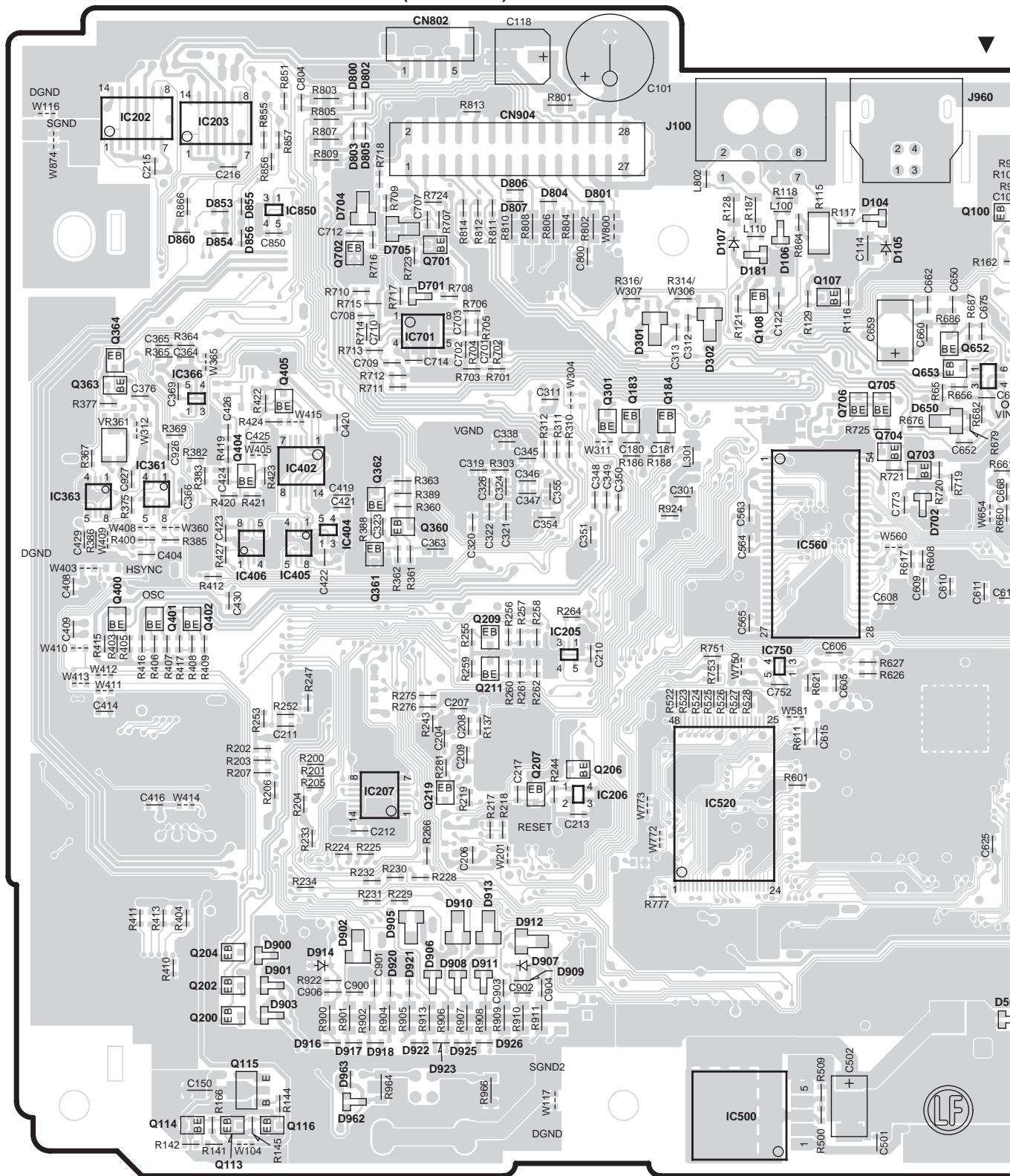
(This means that, if the touch is not at the dead center of the +-mark, maintain the touch, and slide the stick to the dead center of the +-mark.)

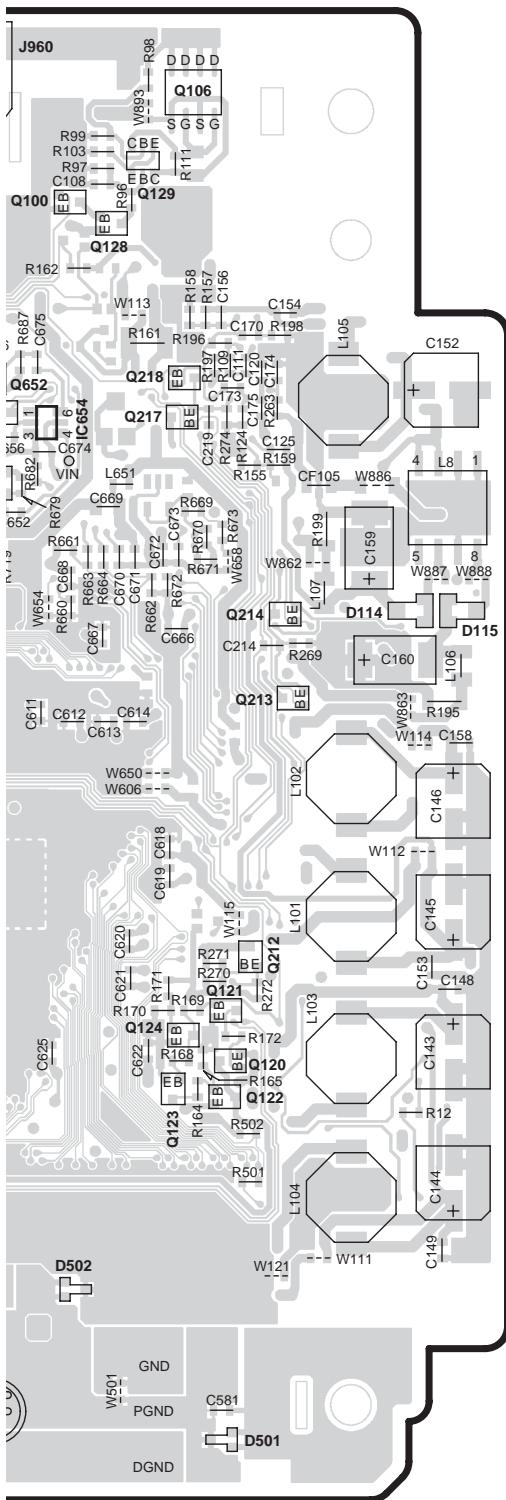
Then, let the touch go quickly, vertically upward.

DDX6027/6027Y/7017  
DDX7037/7047/7067

## **PC BOARD (COMPONENT SIDE VIEW)**

**VIDEO CONTROL UNIT X14-957/958x-xx (J76-0098-22)**





X14-957/958x-xx

Ref. No.	Address	Ref. No.	Address
IC203	2B	Q183	3D
IC205	4C	Q184	3D
IC206	5D	Q202	6B
IC207	5C	Q204	6B
IC361	3B	Q206	5D
IC363	4A	Q207	5C
IC366	3B	Q211	4C
IC402	3B	Q212	5F
IC404	4B	Q213	4F
IC405	4B	Q214	4F
IC406	4B	Q217	3F
IC500	6D	Q218	3F
IC520	5D	Q219	5C
IC560	4E	Q301	3D
IC654	3F	Q360	4C
IC701	3C	Q361	4C
IC750	4D	Q362	3C
IC850	2B	Q363	3A
Q100	2E	Q364	3A
Q106	2F	Q400	4A
Q107	3E	Q401	4B
Q108	3D	Q402	4B
Q113	7B	Q404	3B
Q114	6B	Q405	3B
Q115	6B	Q652	3E
Q116	6B	Q653	3E
Q120	5F	Q701	2C
Q121	5F	Q702	2B
Q122	5F	Q703	3E
Q123	5F	Q704	3E
Q124	5F	Q705	3E
Q128	2F	Q706	3E
Q129	2F		

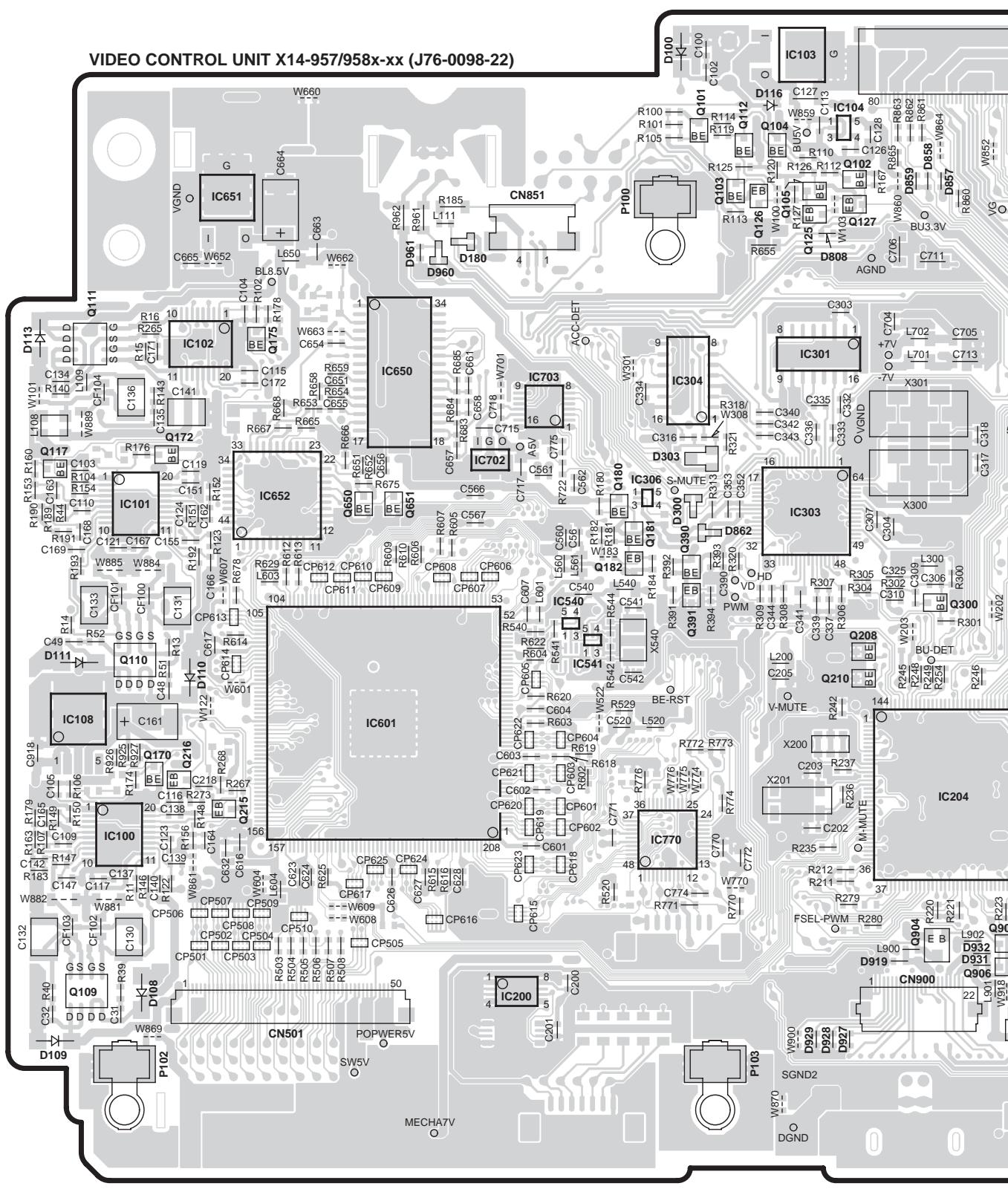
Refer to the schematic diagram for the values of resistors and capacitors.

DDX6027/6027Y/7017

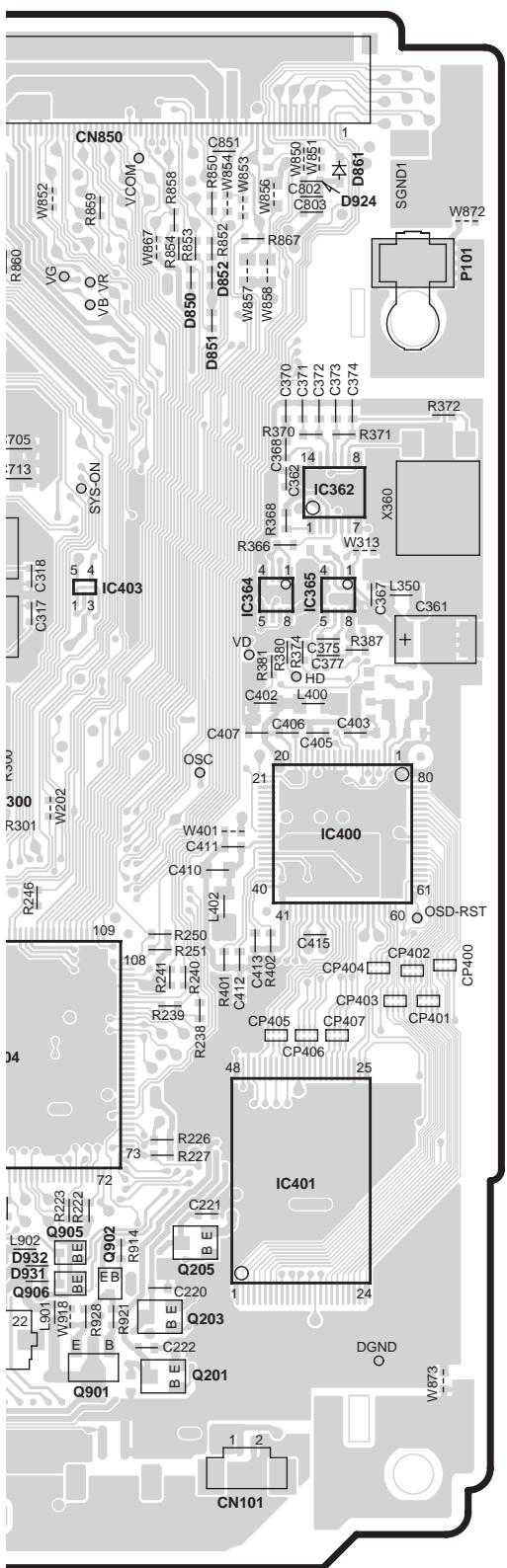
DDX7037/7047/7067

# PC BOARD (FOIL SIDE VIEW)

**VIDEO CONTROL UNIT X14-957/958x-xx (J76-0098-22)**



DDX6027/6027Y/7017  
DDX7037/7047/7067



X14-957/958x-xx

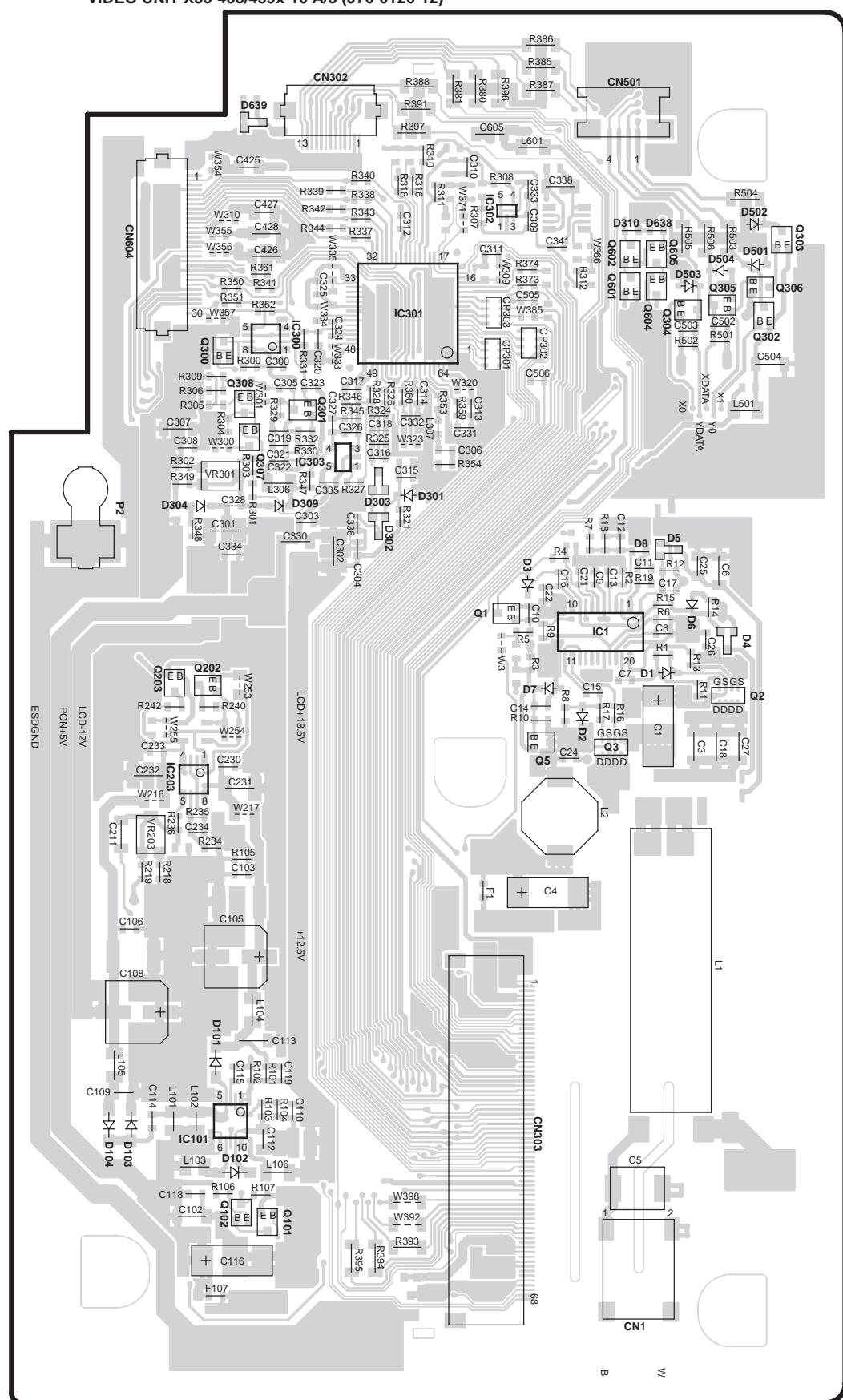
Ref. No.	Address	Ref. No.	Address
IC100	5K	Q102	2O
IC101	4K	Q103	2N
IC102	3L	Q104	2N
IC103	2O	Q105	2N
IC104	2O	Q109	6K
IC108	5K	Q110	4K
IC200	6M	Q111	3K
IC204	5O	Q112	2N
IC301	3O	Q125	2O
IC303	4O	Q126	2N
IC304	3N	Q127	2O
IC306	3N	Q170	5L
IC362	3Q	Q172	3L
IC364	3P	Q175	3L
IC365	3Q	Q180	3N
IC400	4Q	Q181	4N
IC401	5Q	Q182	4N
IC403	3P	Q203	6P
IC540	4M	Q205	6P
IC541	4N	Q210	4O
IC601	5M	Q215	5L
IC650	3M	Q216	5L
IC651	2L	Q300	4O
IC652	4L	Q390	4N
IC702	3M	Q391	4N
IC703	3M	Q650	4L
IC770	5N	Q651	4M
Q101	2N		

Refer to the schematic diagram for the values of resistors and capacitors.

DDX6027/6027Y/7017  
DDX7037/7047/7067

## **PC BOARD (COMPONENT SIDE VIEW)**

**VIDEO UNIT X35-458/459x-10 A/3 (J76-0126-12)**

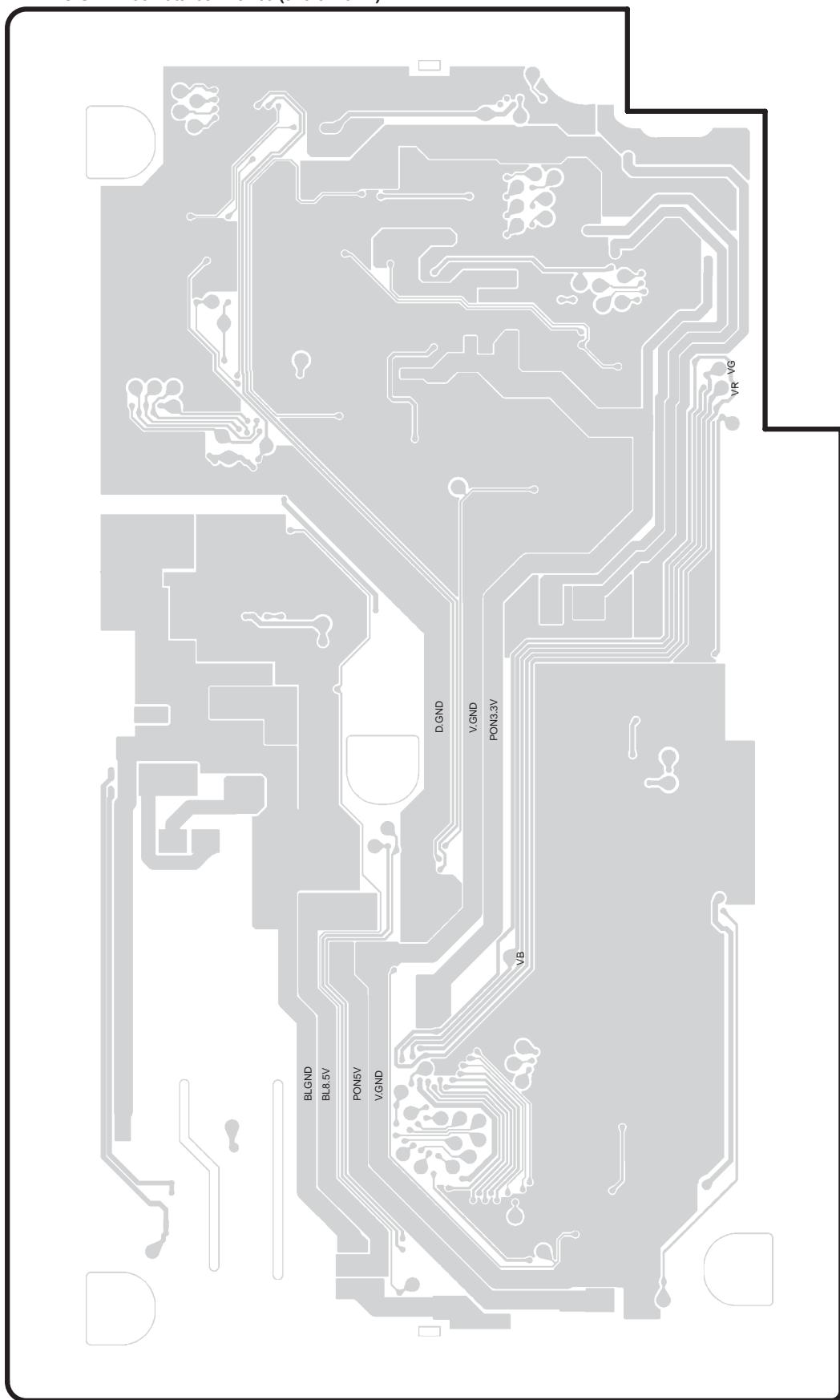


X35-458/459x-10 (A/3)	
Ref. No.	Address
IC1	4W
IC101	6V
IC203	5V
IC300	3V
IC301	3W
IC302	2W
IC303	3V
Q1	4W
Q2	4X
Q3	4W
Q5	4W
Q101	6V
Q102	6V
Q202	4V
Q203	4V
Q300	3V
Q301	3V
Q302	3X
Q303	2X
Q304	3X
Q305	2X
Q306	2X
Q307	3V
Q308	3V
Q601	2W
Q602	2W
Q604	3X
Q605	2X

Refer to the schematic diagram for the values of resistors and capacitors.

# PC BOARD (FOIL SIDE VIEW)

VIDEO UNIT X35-458/459x-10 A/3 (J76-0126-12)

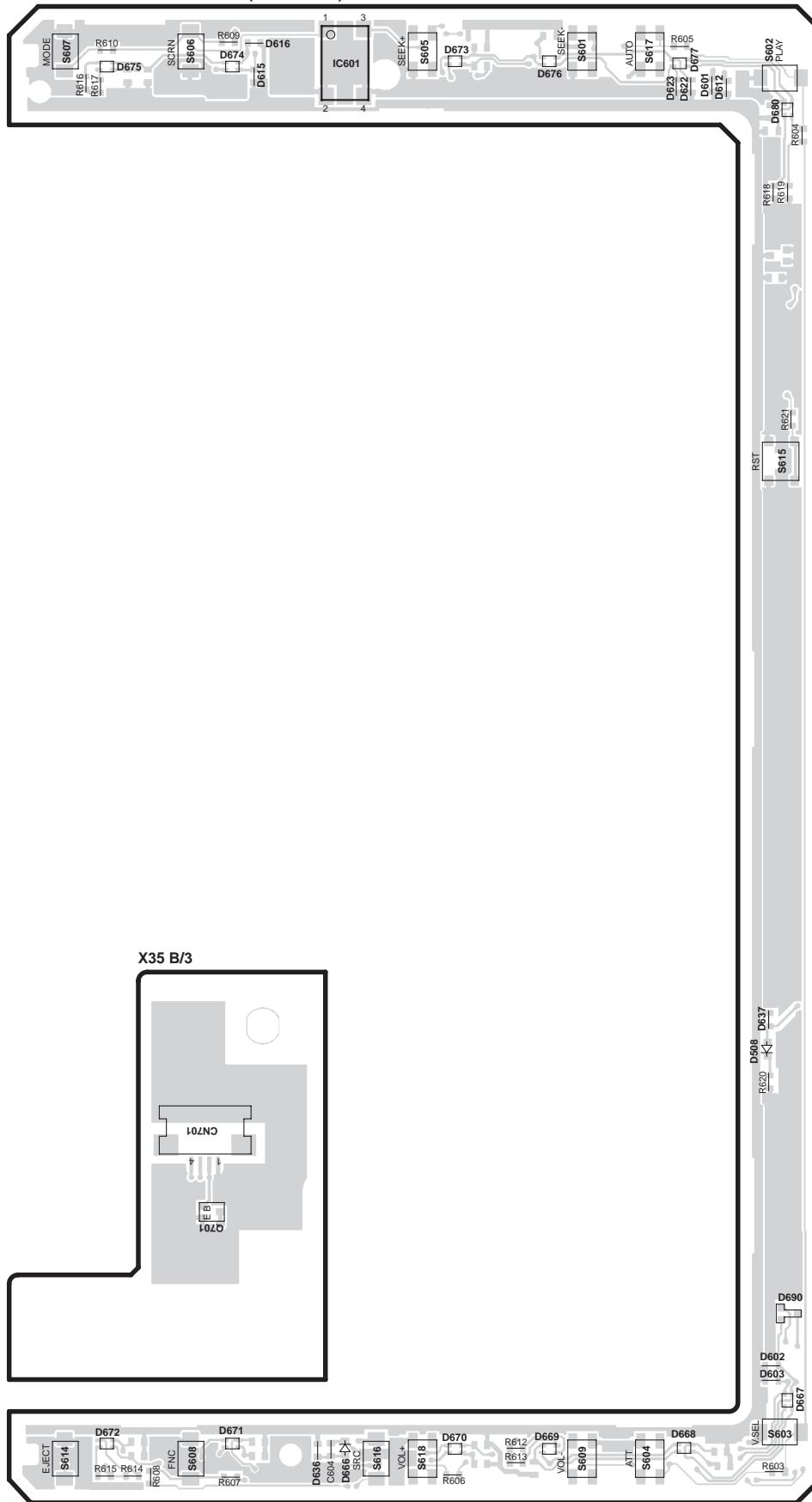


Refer to the schematic diagram for the values of resistors and capacitors.

DDX6027/6027Y/7017  
DDX7037/7047/7067

## **PC BOARD (COMPONENT SIDE VIEW)**

**VIDEO UNIT X35-458/459x-10 C/3 (J76-0126-12)**



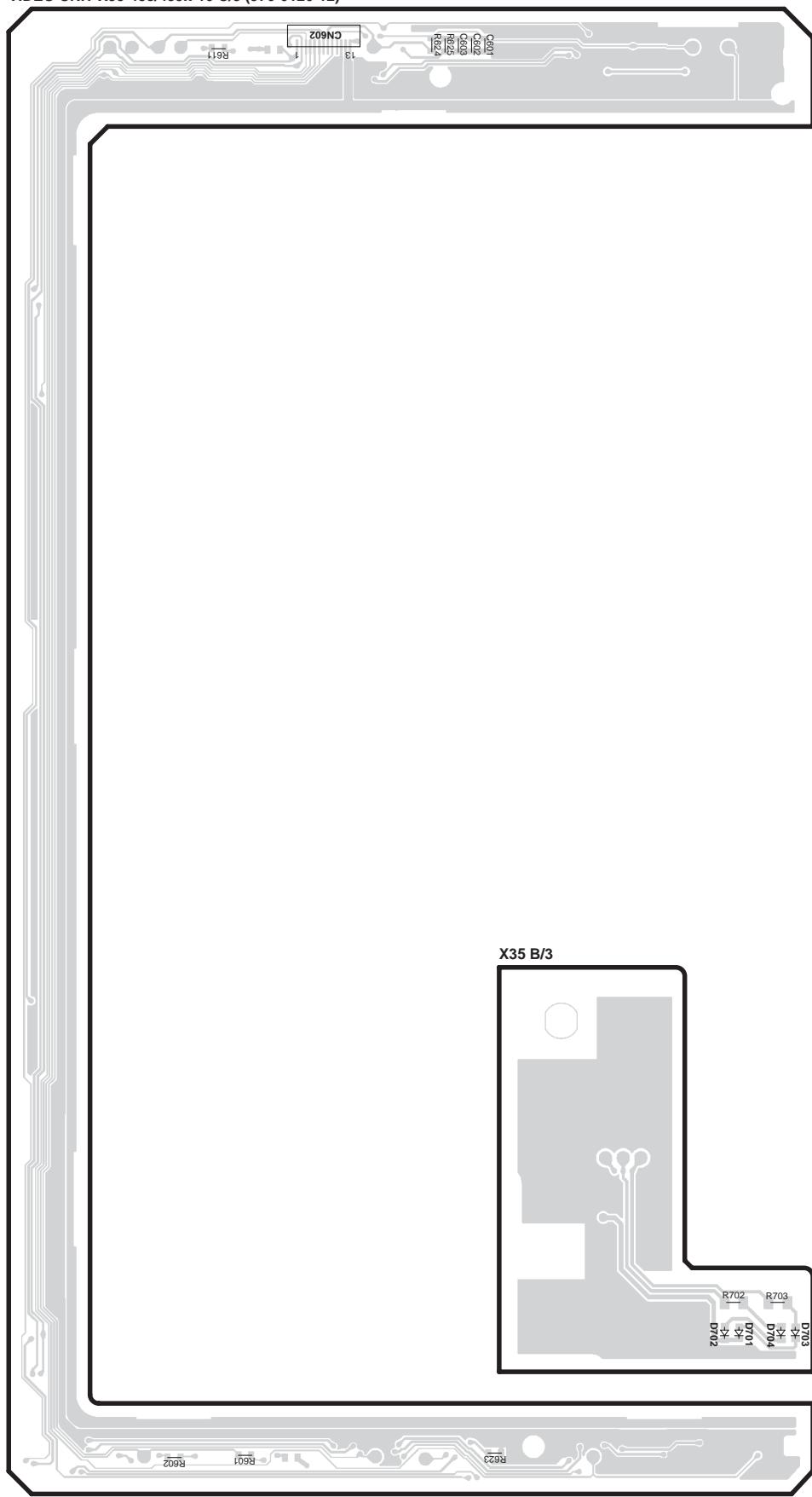
X35-458/459x-10 (B,C/3)

Ref. No.	Address
IC601	2AF
Q701	6AF

Refer to the schematic diagram for the values of resistors and capacitors.

# PC BOARD (FOIL SIDE VIEW)

VIDEO UNIT X35-458/459x-10 C/3 (J76-0126-12)

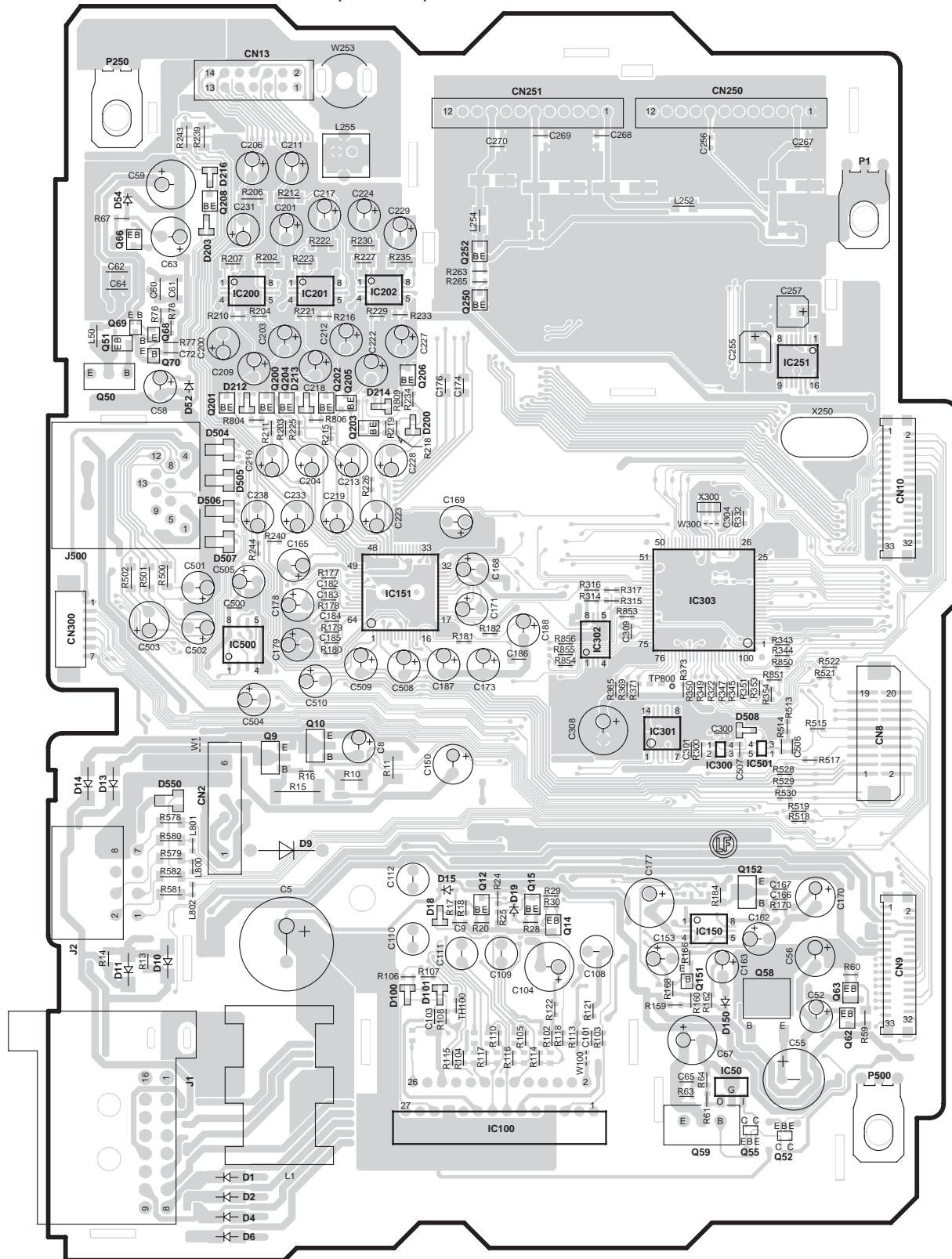


Refer to the schematic dia-  
gram for the values of resis-  
tors and capacitors.

DDX6027/6027Y/7017  
DDX7037/7047/7067

## PC BOARD (COMPONENT SIDE VIEW)

**ELECTRIC UNIT X34-384/385x-xx A/3 (J76-0128-12)**

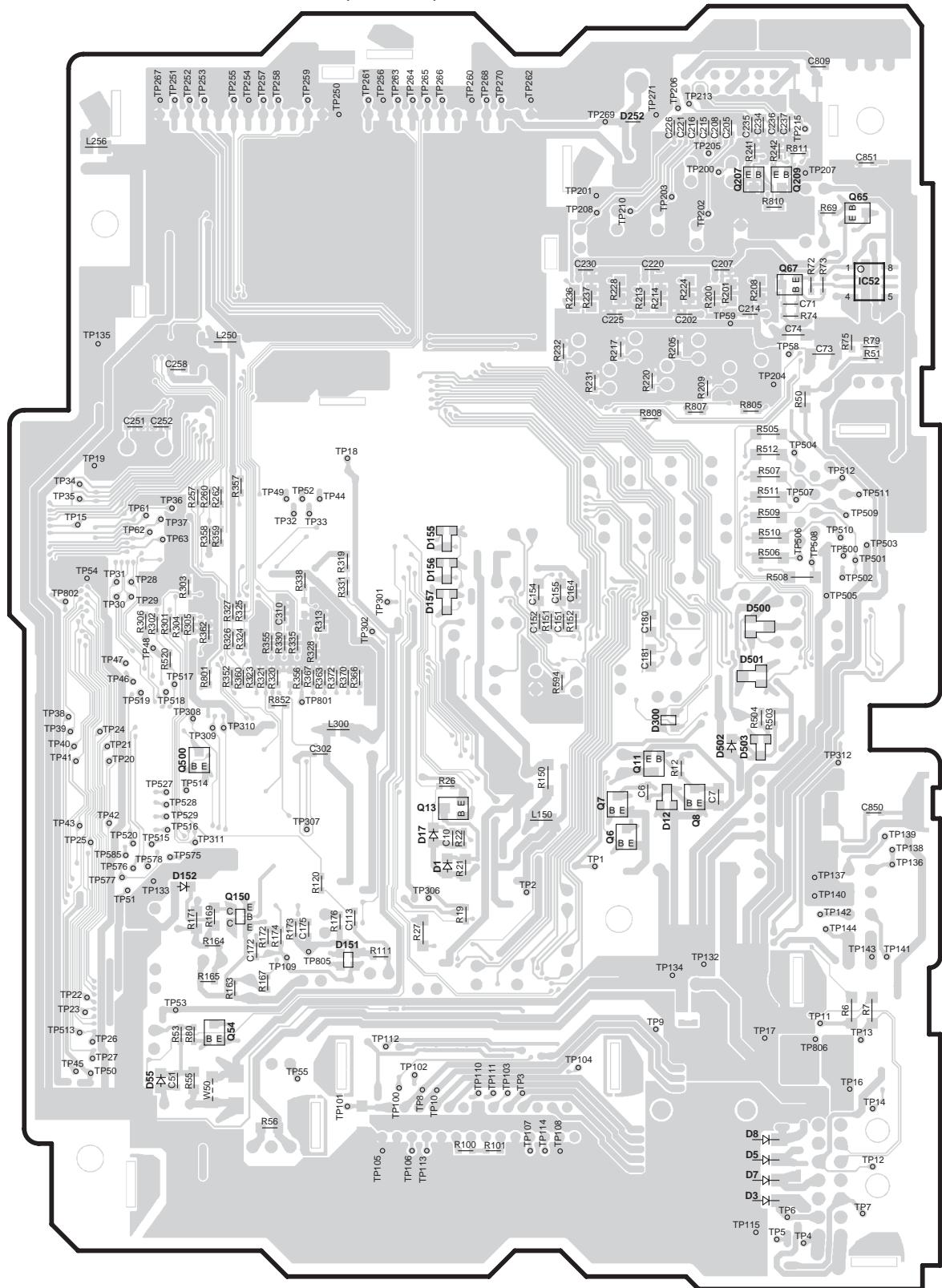


Ref. No.	Address
IC50	6AR
IC100	6AQ
IC150	5AR
IC151	4AP
IC200	3AP
IC201	3AP
IC202	3AP
IC251	3AR
IC300	5AR
IC301	4AR
IC302	4AQ
IC303	4AR
IC500	4AP
IC501	5AR
Q9	4AP
Q10	4AP
Q12	5AQ
Q14	5AQ
Q15	5AQ
Q50	3AO
Q51	3AO
Q52	6AR
Q55	6AR
Q58	5AR
Q59	6AR
Q62	6AR
Q63	6AR
Q66	2AO
Q68	3AO
Q69	3AO
Q70	3AO
Q151	5AR
Q152	5AR
Q200	3AP
Q201	3AP
Q202	3AP
Q203	3AP
Q204	3AP
Q205	3AP
Q206	3AQ
Q208	2AP
Q250	3AQ
Q252	2AQ

Refer to the schematic diagram for the values of resistors and capacitors.

# PC BOARD (FOIL SIDE VIEW)

ELECTRIC UNIT X34-384/385x-xx A/3 (J76-0128-12)



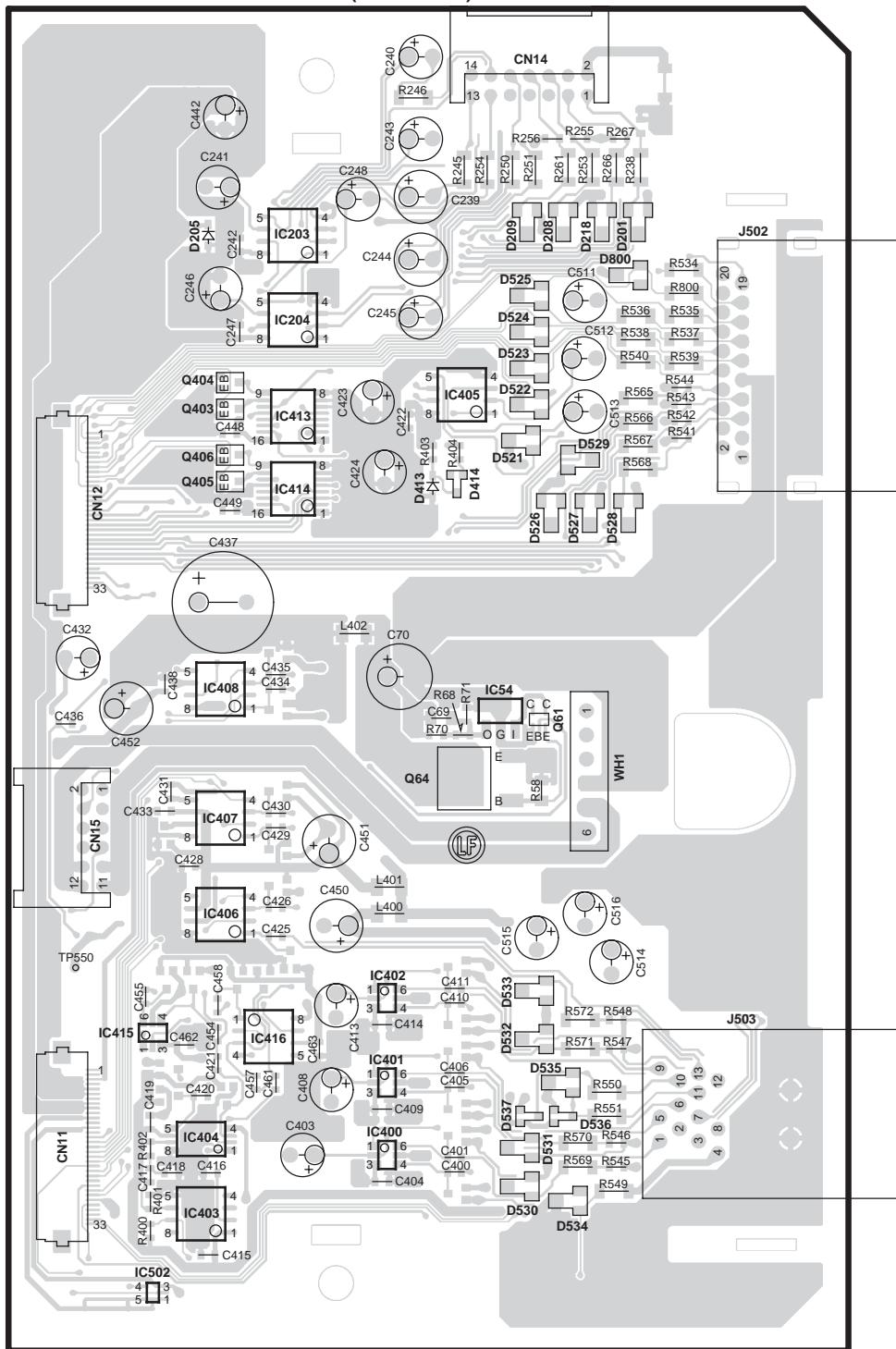
Refer to the schematic diagram for the values of resistors and capacitors.

X34-384/385x-xx (A/3)	
Ref. No.	Address
IC52	2AW
Q6	5AV
Q7	5AV
Q8	5AV
Q11	4AV
Q13	5AU
Q54	6AT
Q65	2AW
Q67	2AW
Q150	5AT
Q207	2AW
Q209	2AW
Q500	5AT

DDX6027/6027Y/7017  
DDX7037/7047/7067

## PC BOARD (COMPONENT SIDE VIEW)

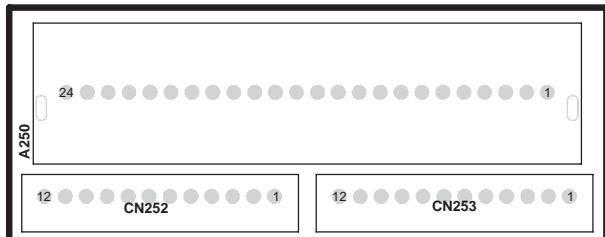
ELECTRIC UNIT X34-384/385x-xx B/3 (J76-0128-12)



X34-384/385x-xx (B/3)

Ref. No.	Address
IC54	4BA
IC203	2AZ
IC204	2AZ
IC400	5AZ
IC401	5AZ
IC402	5AZ
IC403	6AZ
IC404	5AZ
IC405	3BA
IC406	5AZ
IC407	4AZ
IC408	4AZ
IC413	3AZ
IC414	3AZ
IC415	5AY
IC416	5AZ
IC502	6AZ
Q61	4BA
Q64	4BA
Q403	3AZ
Q404	3AZ
Q405	3AZ
Q406	3AZ

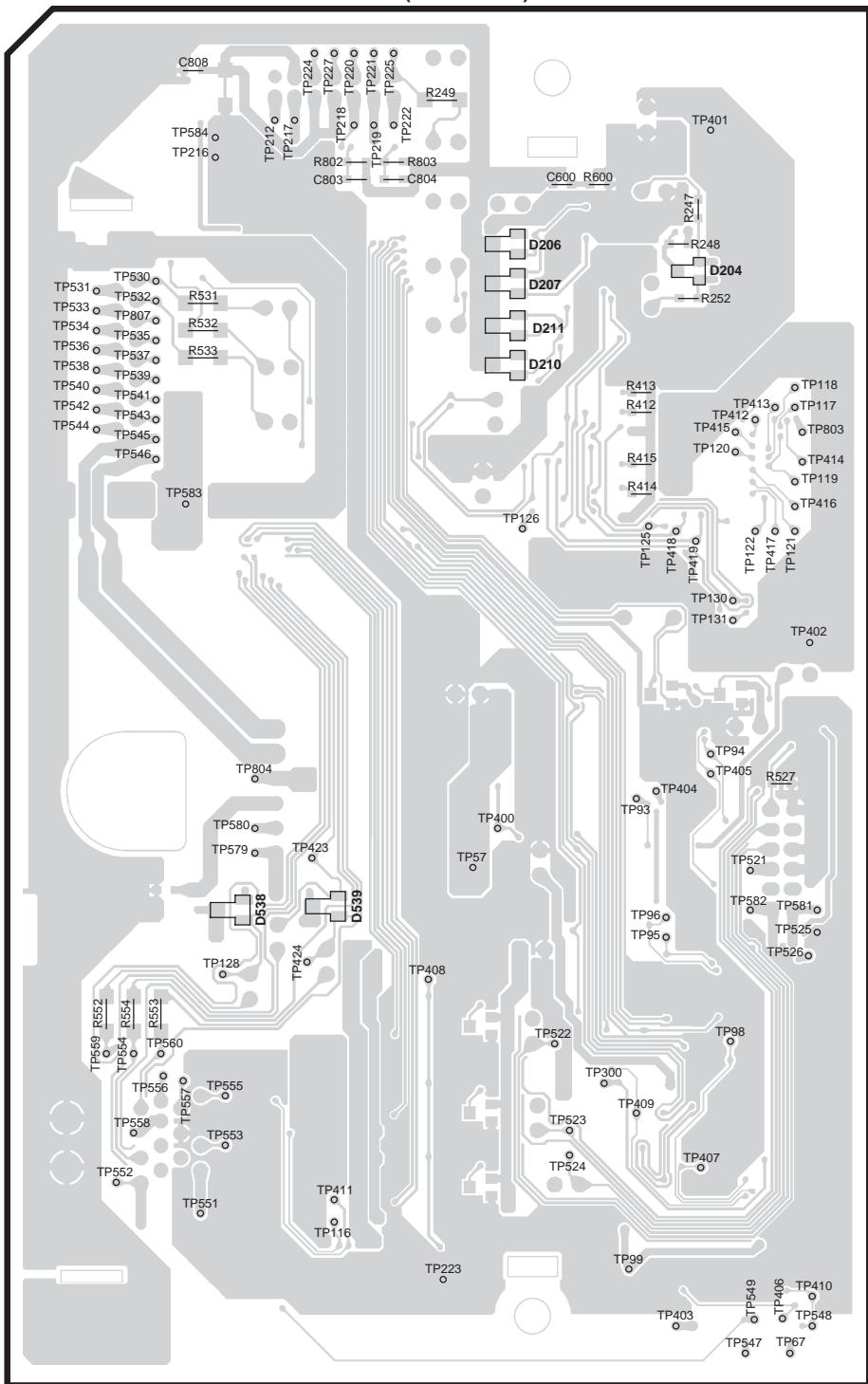
X34 C/3



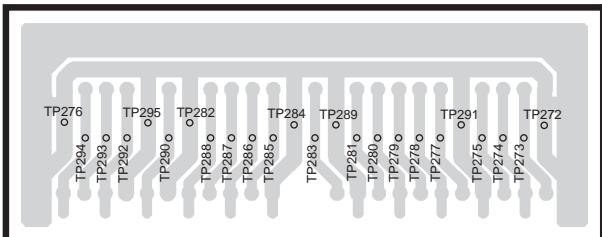
Refer to the schematic diagram for the values of resistors and capacitors.

# PC BOARD (FOIL SIDE VIEW)

ELECTRIC UNIT X34-384/385x-xx B/3 (J76-0128-12)



X34 C/3

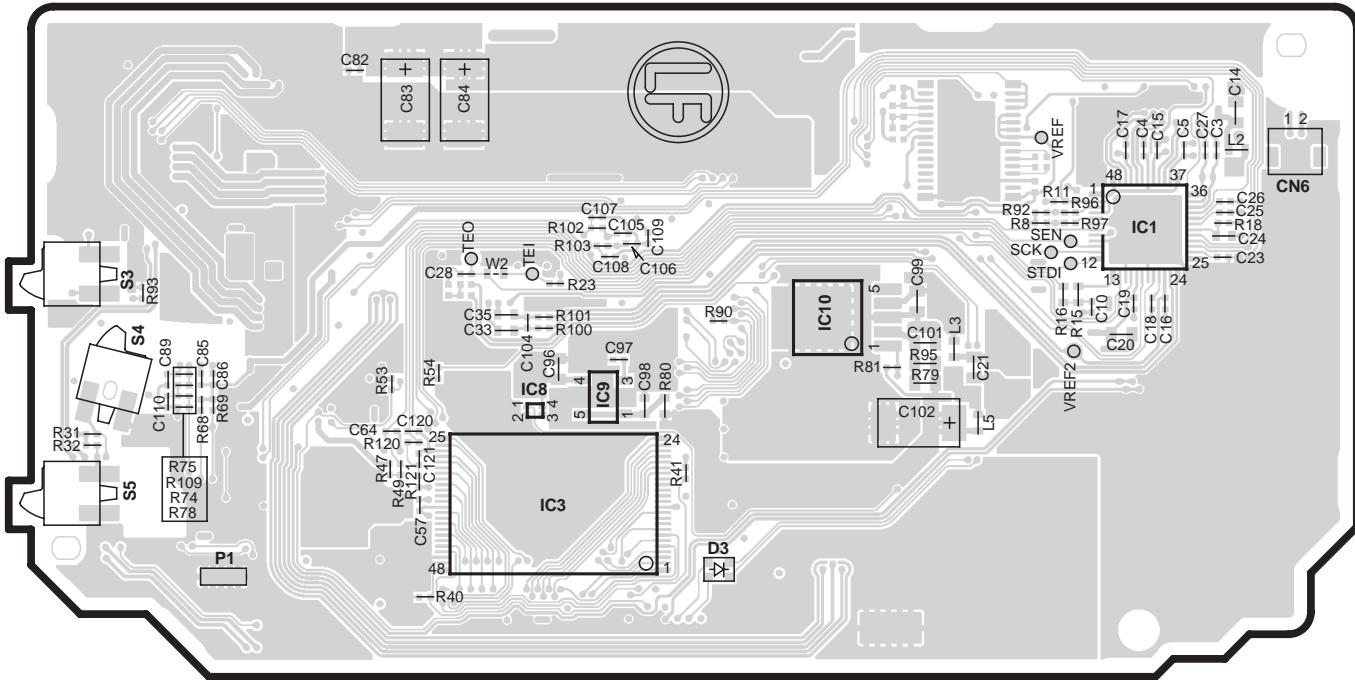


Refer to the schematic diagram for the values of resistors and capacitors.

DDX6027/6027Y/7017  
DDX7037/7047/7067

## PC BOARD (COMPONENT SIDE VIEW)

**DVD UNIT X37-1070-00 (J76-0067-12)**



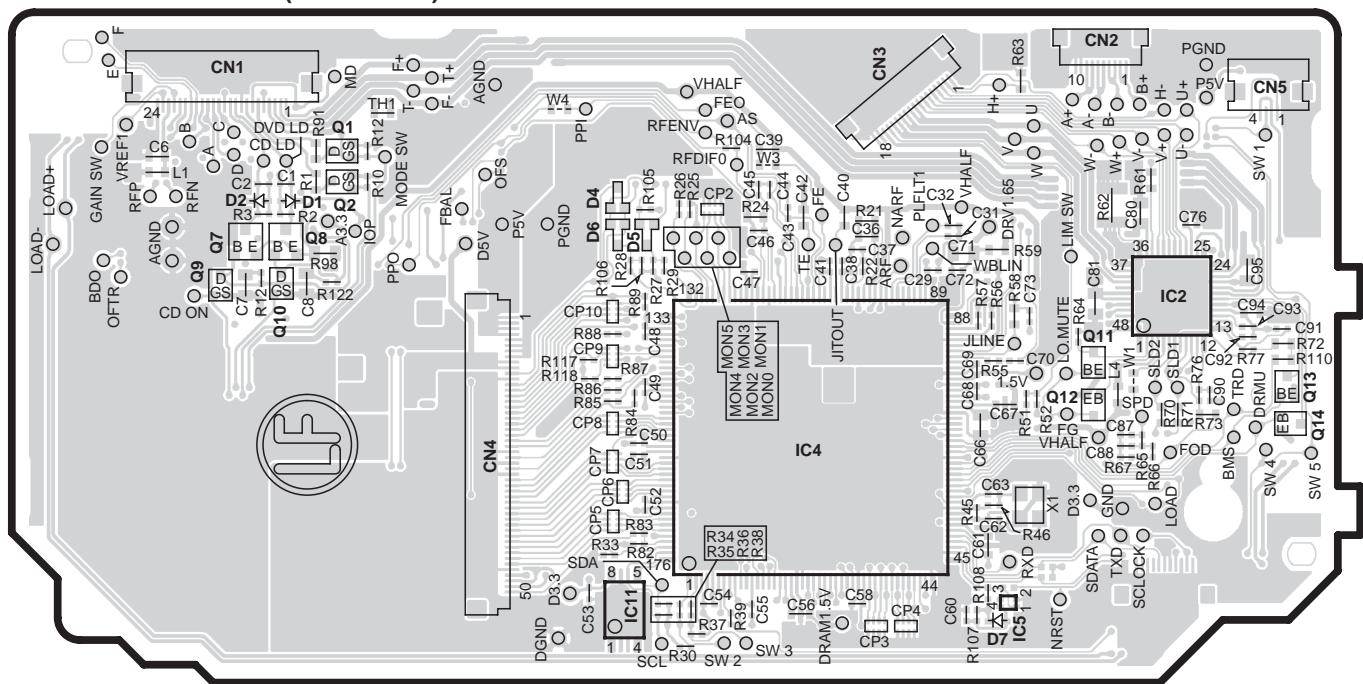
X37-1070-00

Ref. No.	Address
IC1	2BM
IC3	3BK
IC8	3BK
IC9	3BK
IC10	2BL

Refer to the schematic diagram for the values of resistors and capacitors.

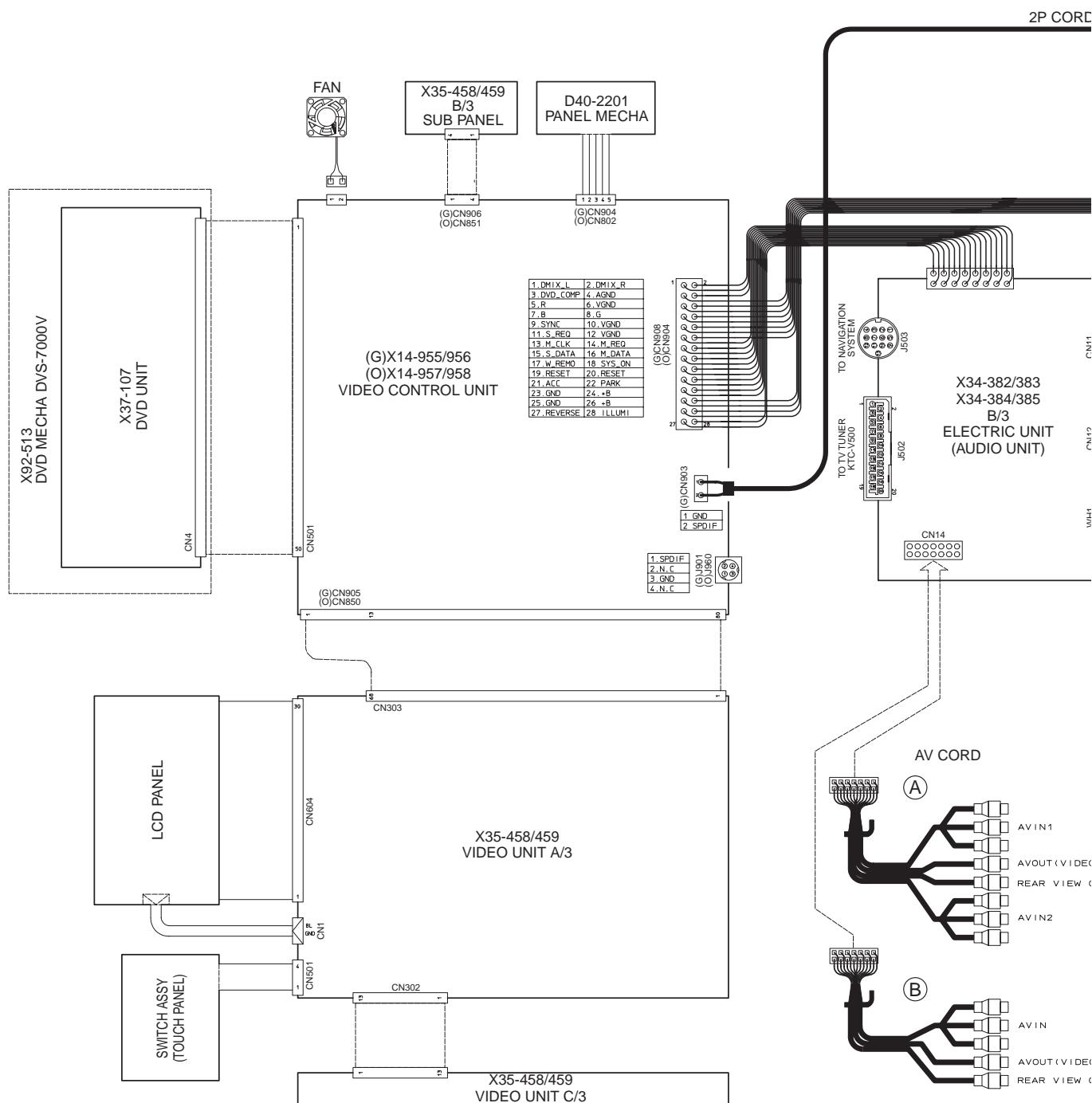
# PC BOARD (FOIL SIDE VIEW)

DVD UNIT X37-1070-00 (J76-0067-12)

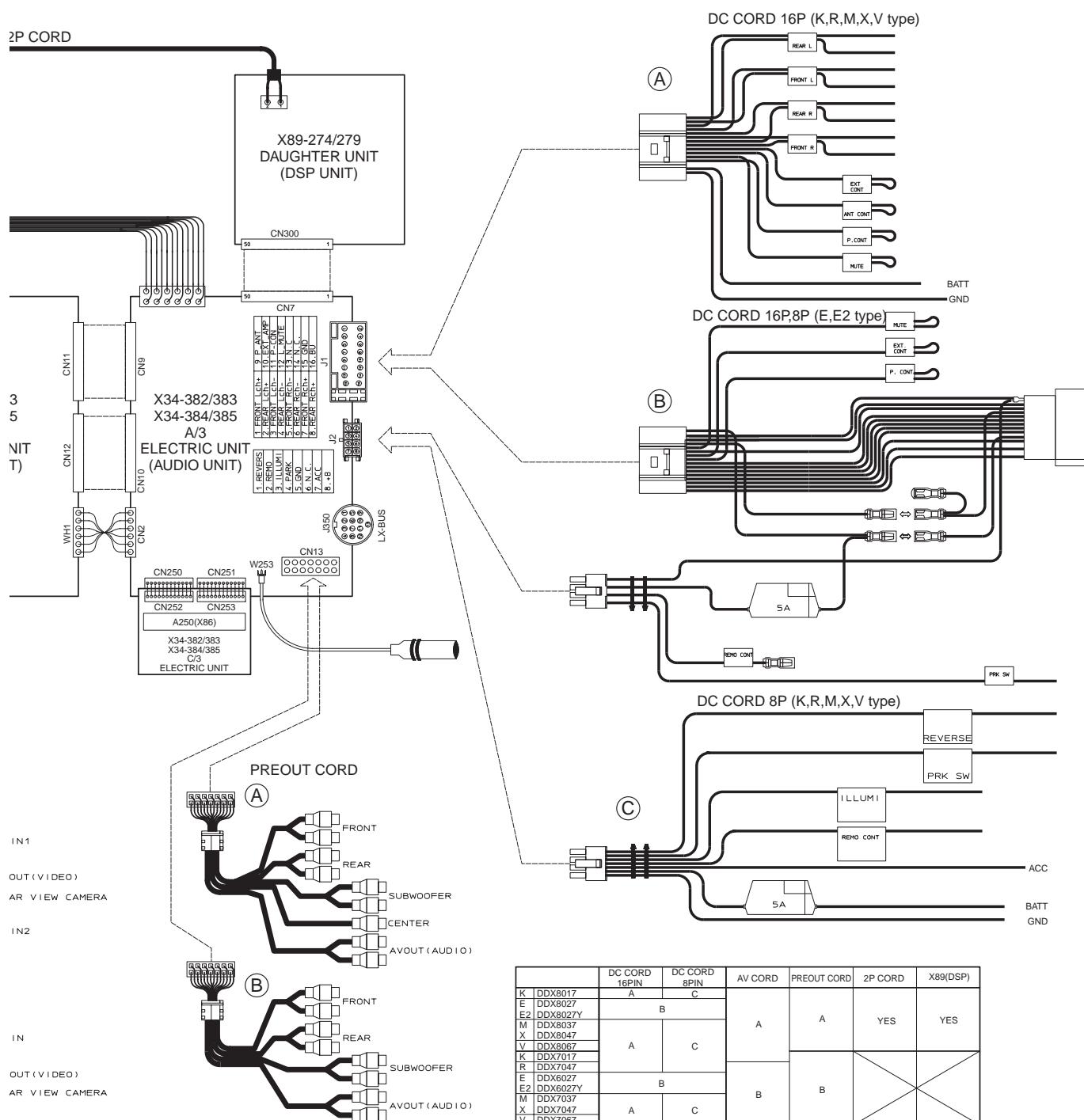


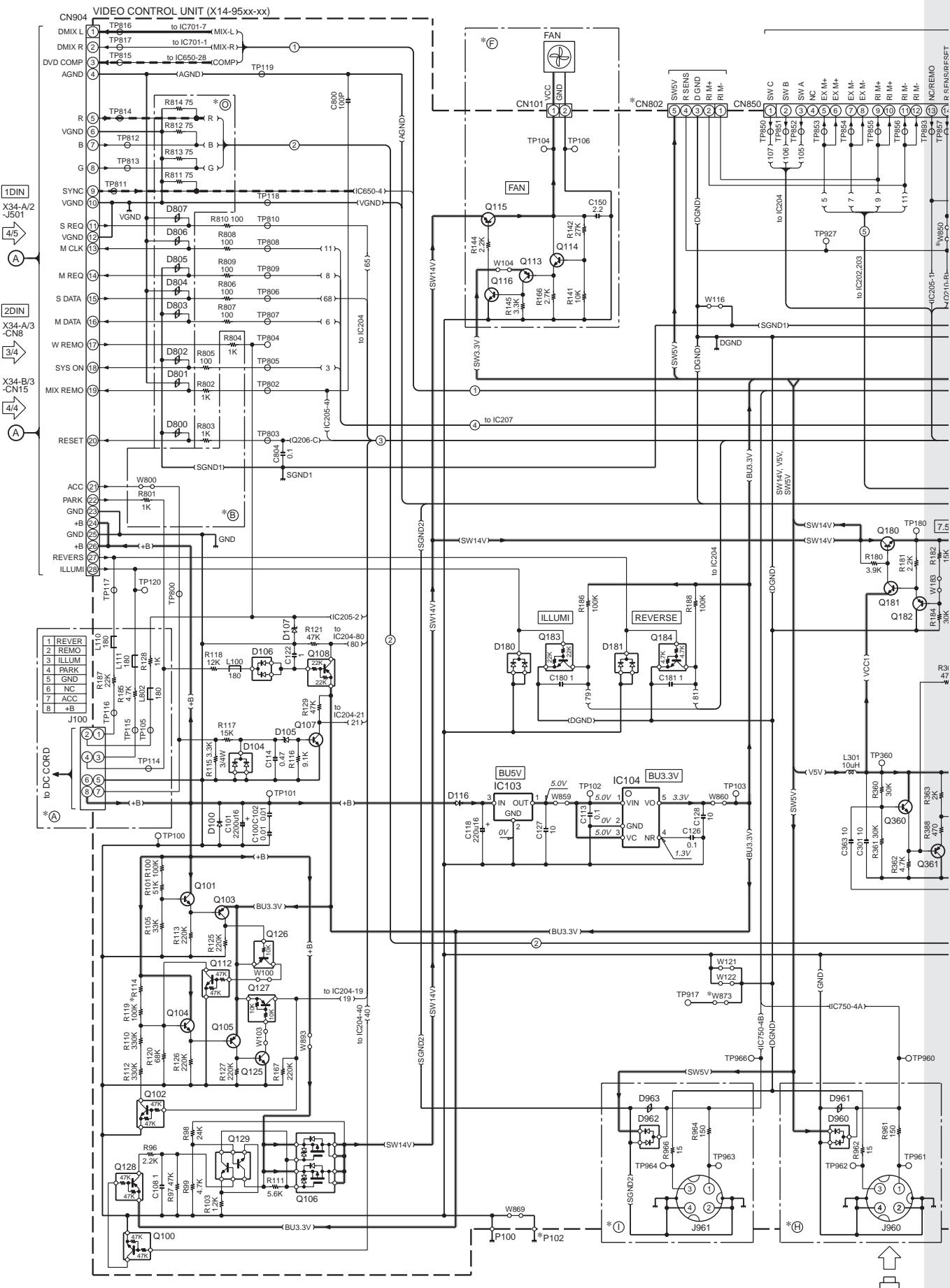
DDX6027/6027Y/7017  
DDX7037/7047/7067

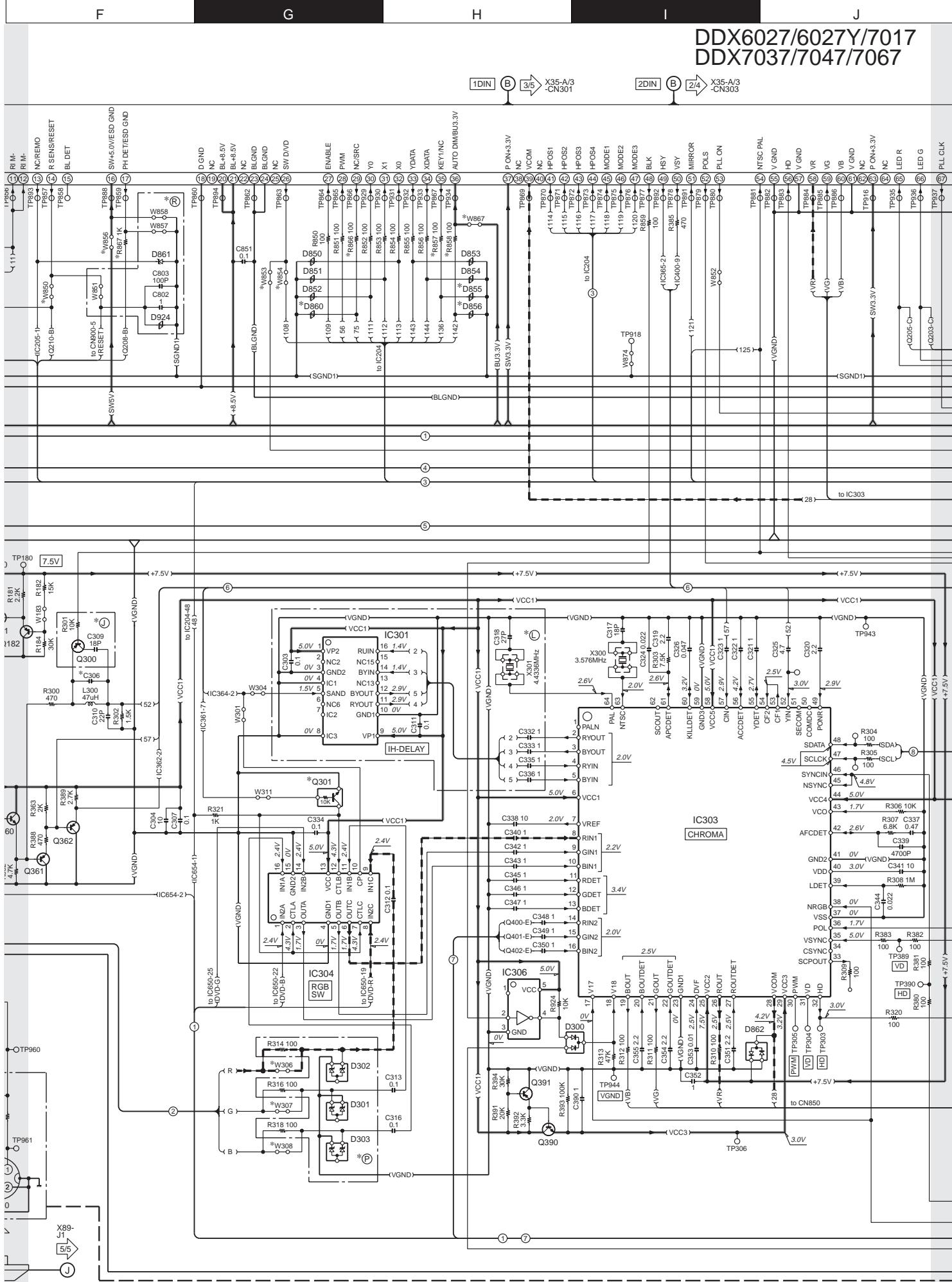
# INTERCONNECTION DIAGRAM

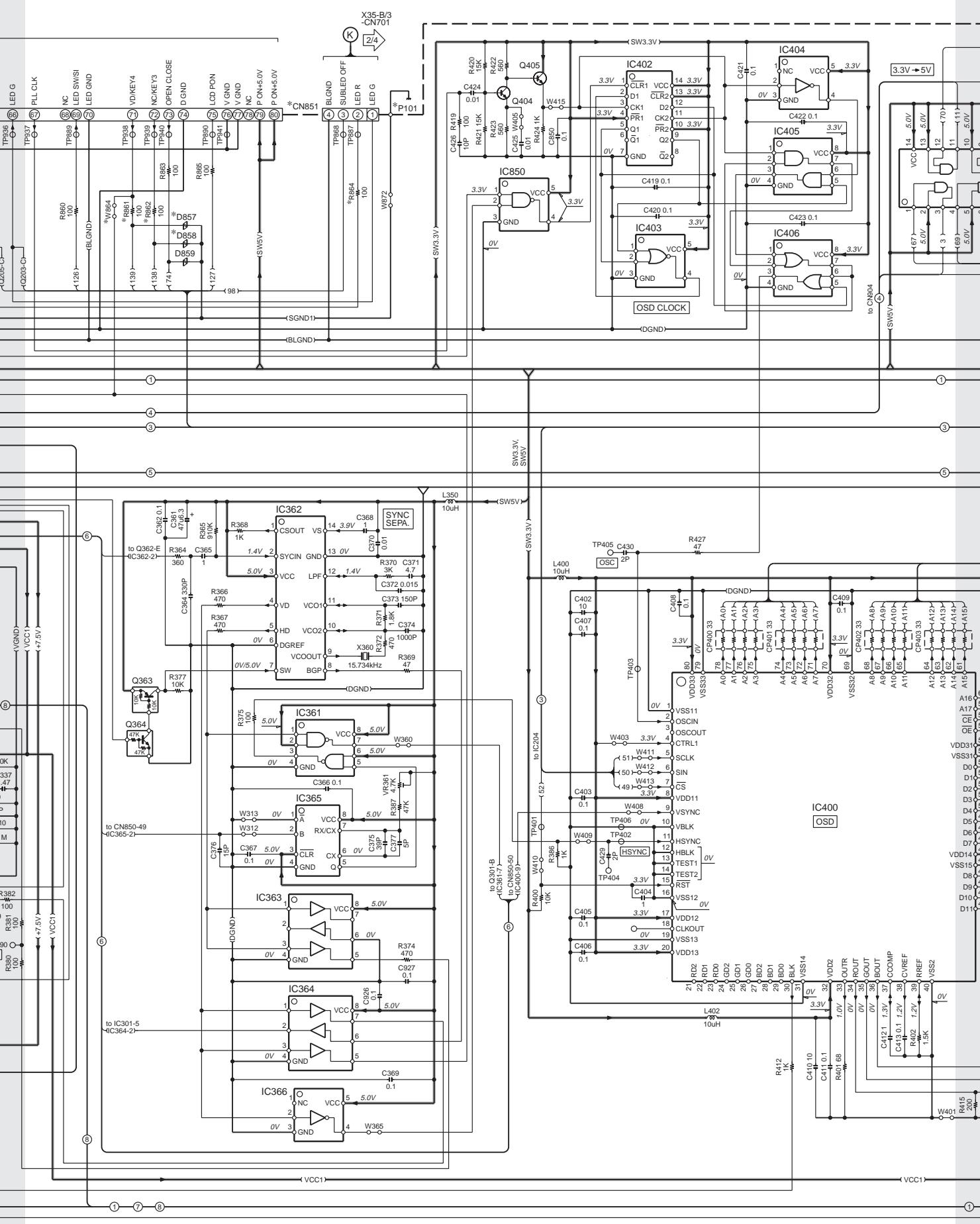


# INTERCONNECTION DIAGRAM

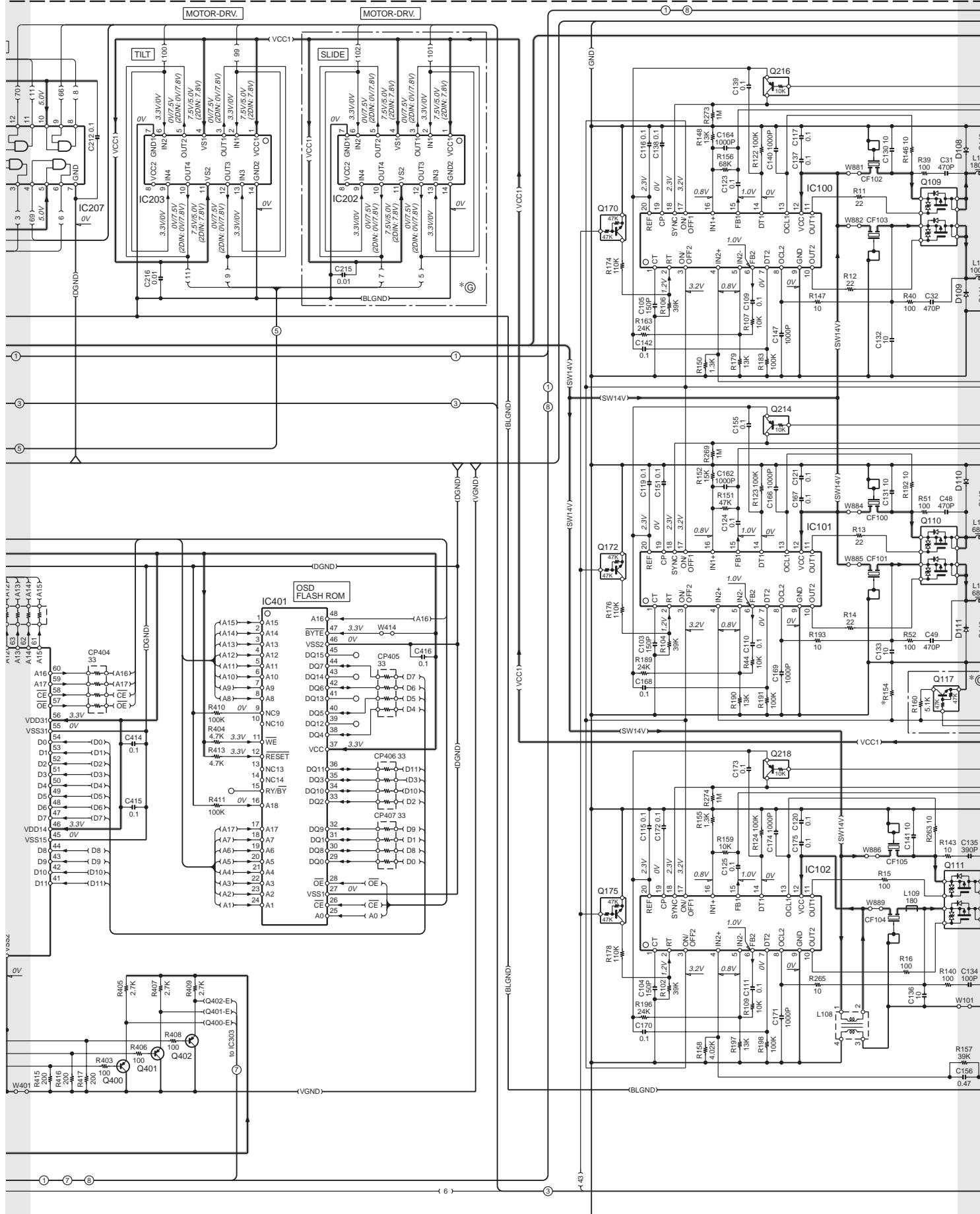


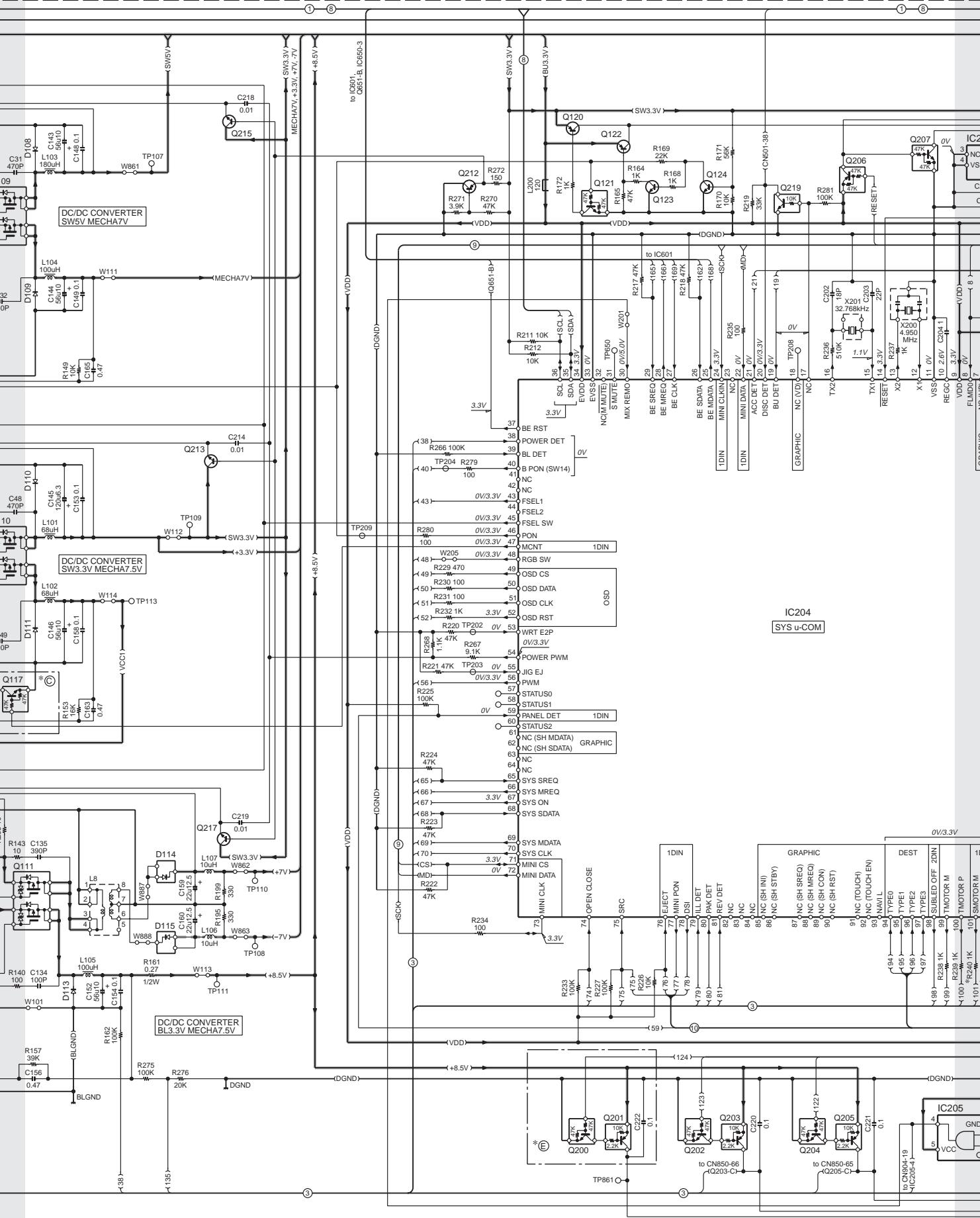






**DDX6027/6027Y/7017  
DDX7037/7047/7067**





Z

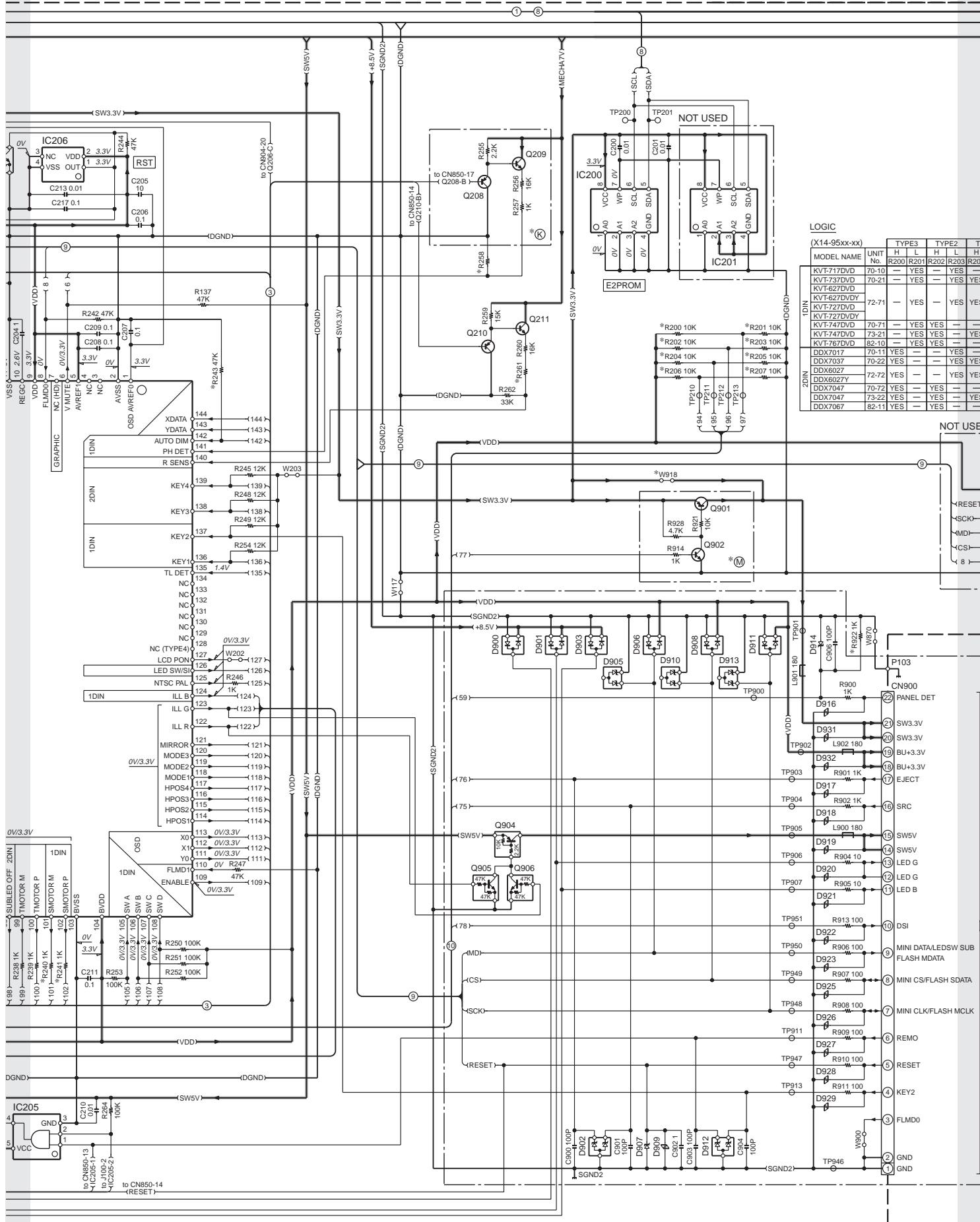
AA

AB

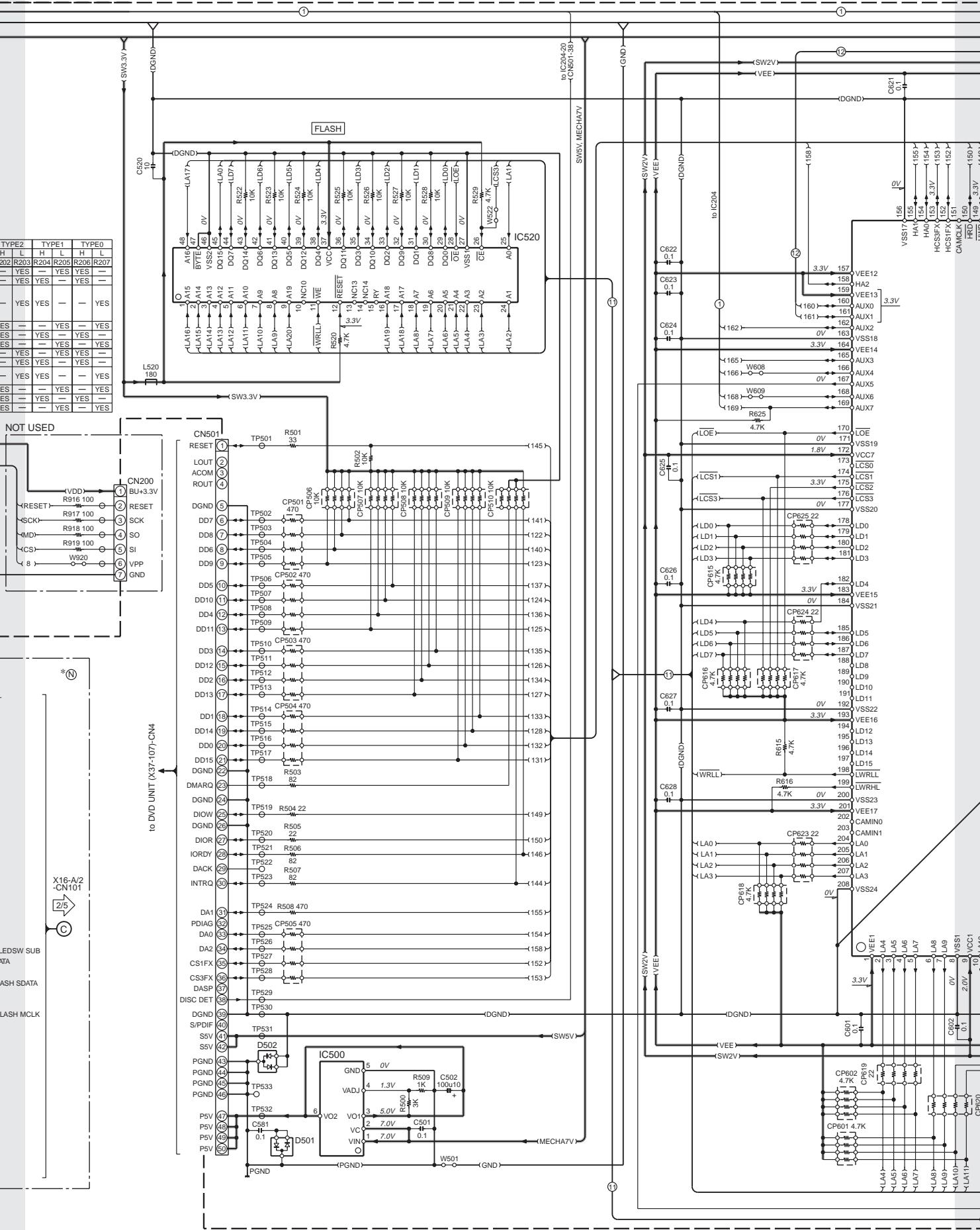
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AD

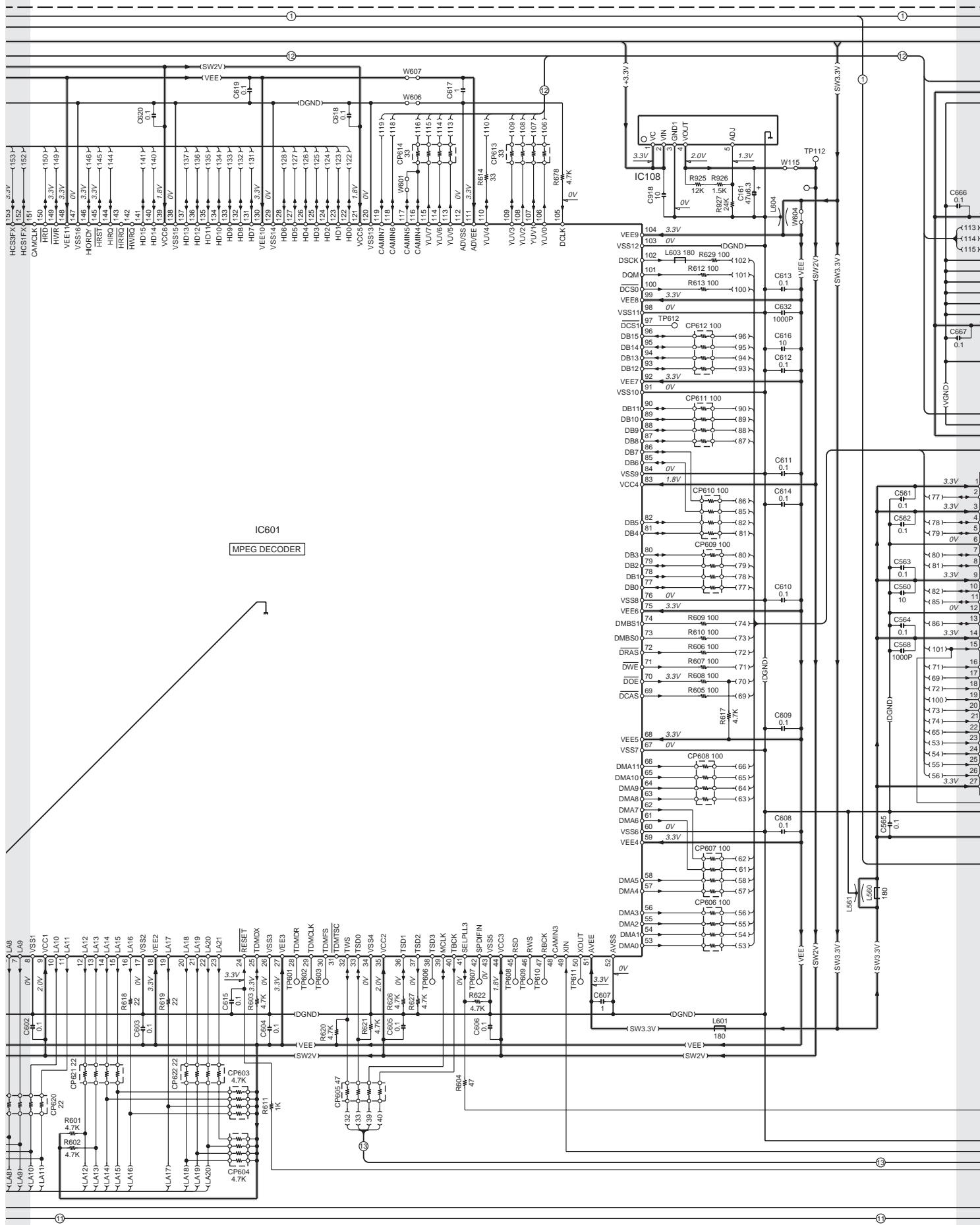
DDX6027/6027Y/7017  
DDX7037/7047/7067



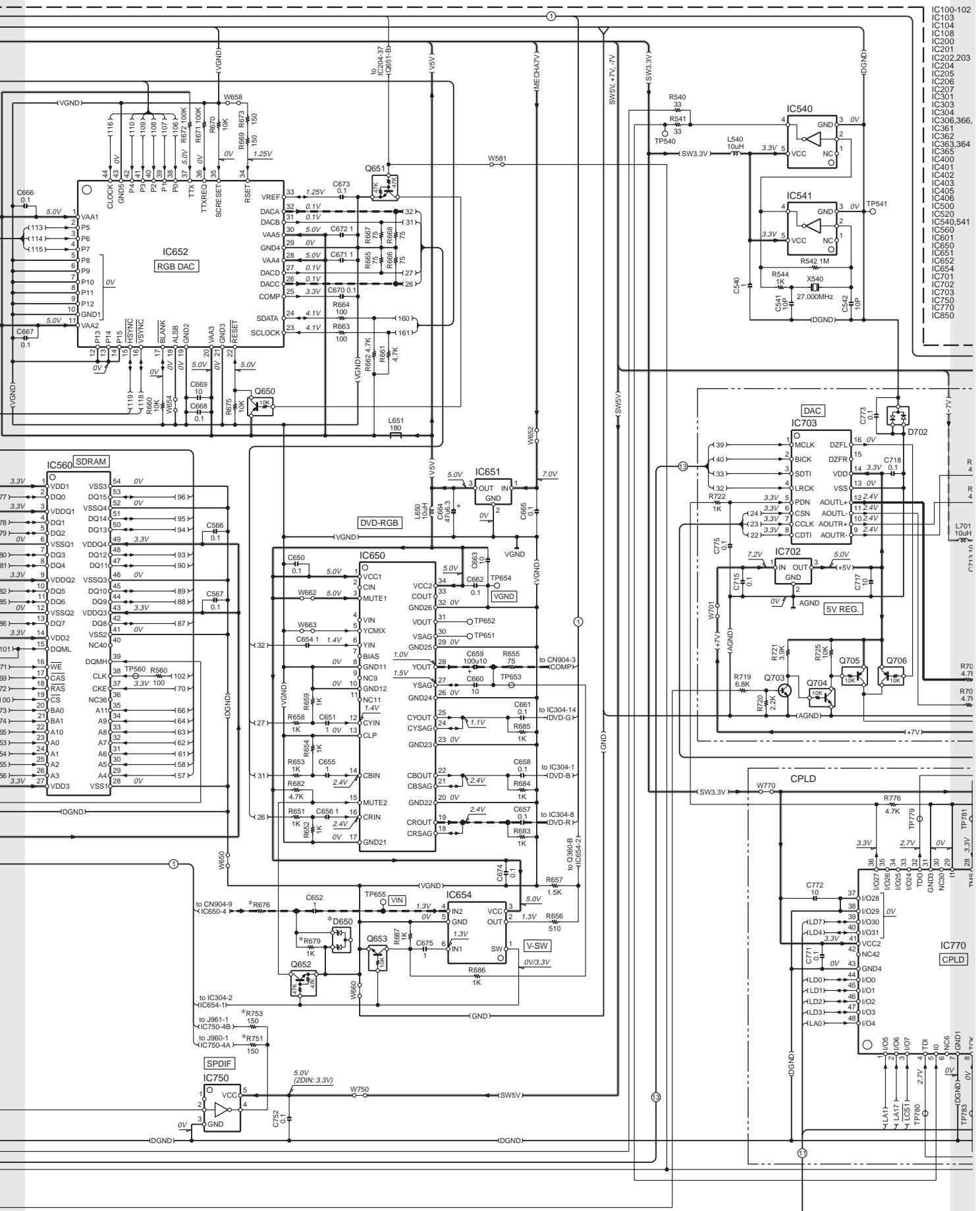
DDX6027/6027Y/7017  
DDX7037/7047/7067



DDX6027/6027Y/7017  
DDX7037/7047/7067

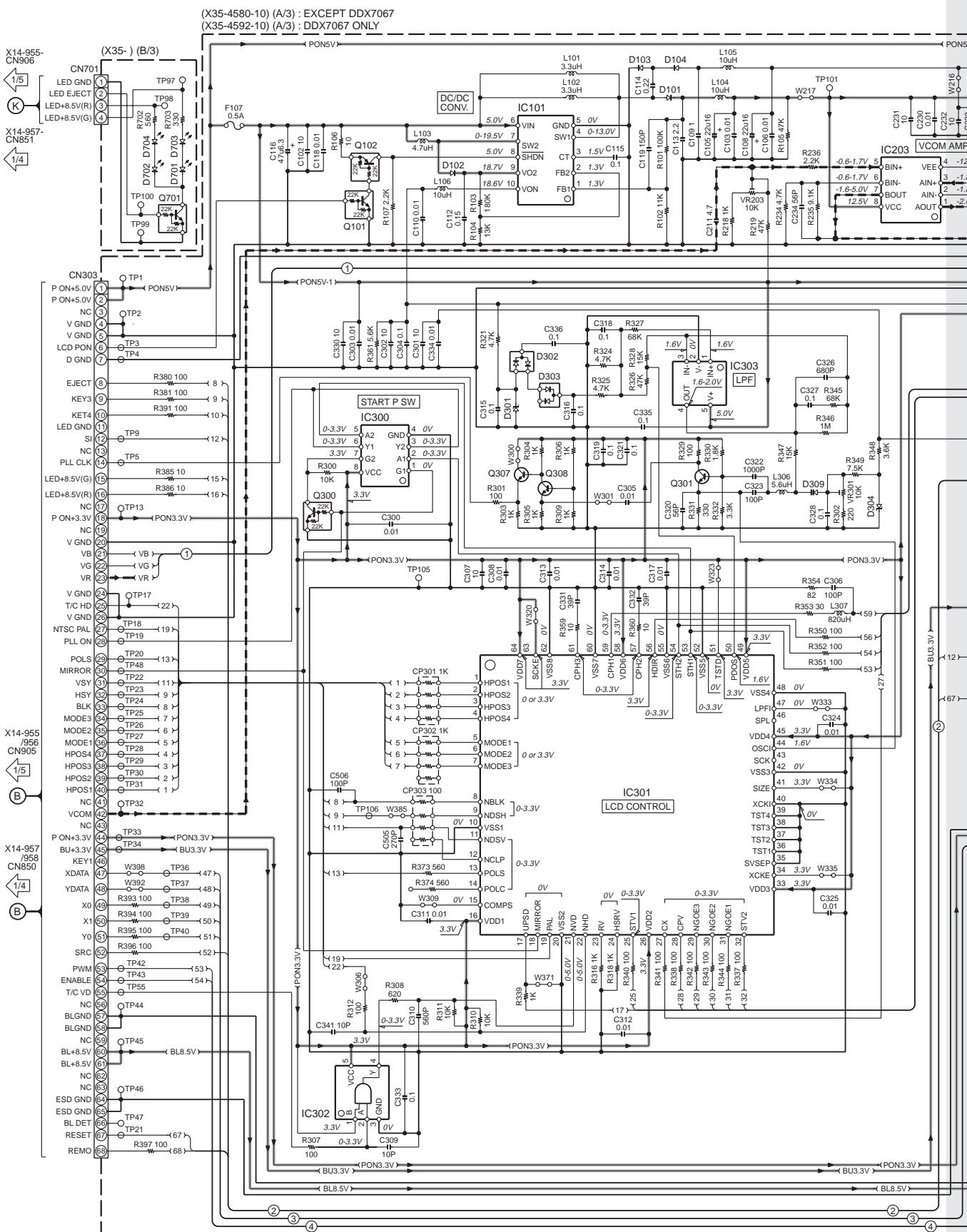


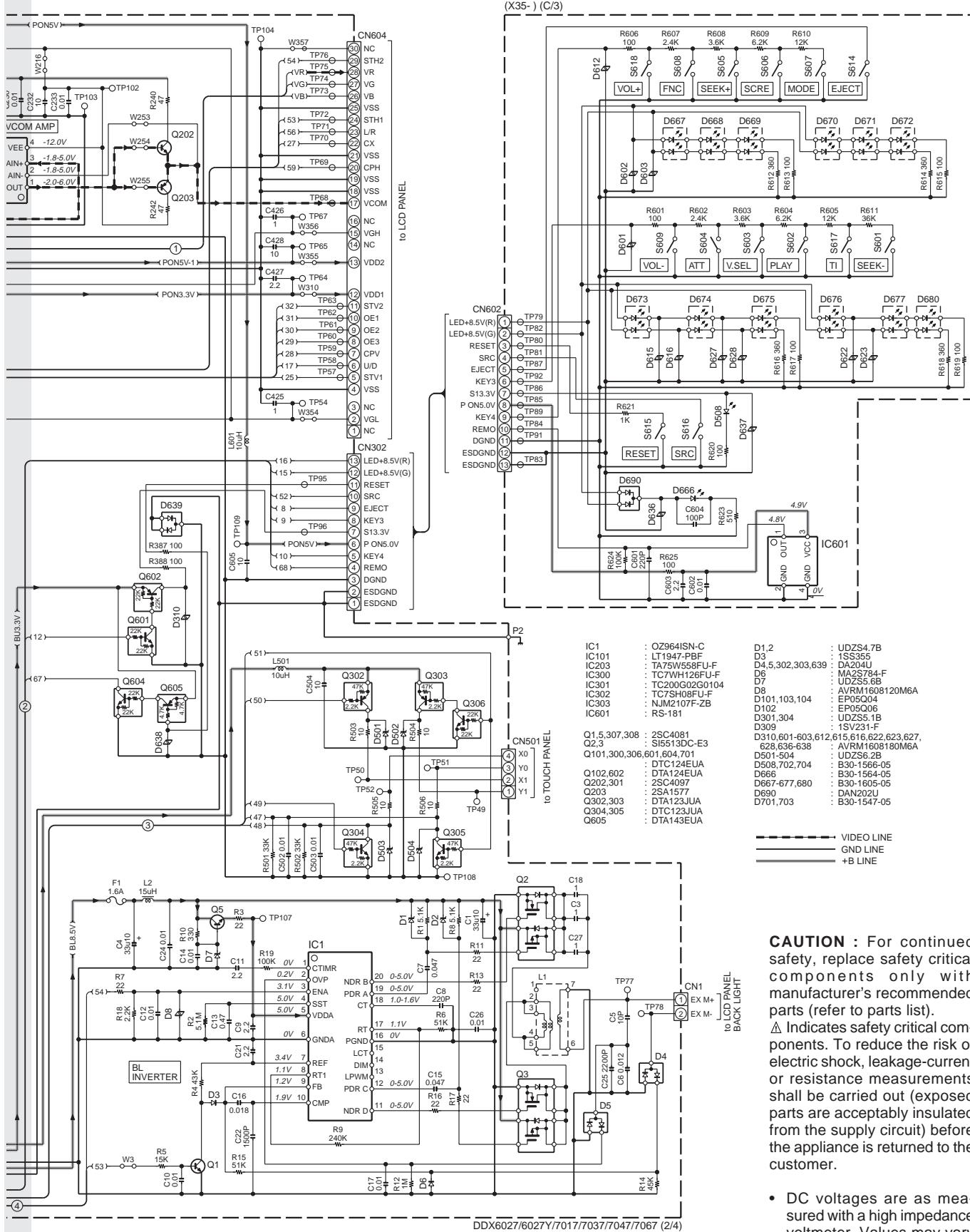
DDX6027/6027Y/7017  
DDX7037/7047/7067





DDX6027/6027Y/7017  
DDX7037/7047/7067



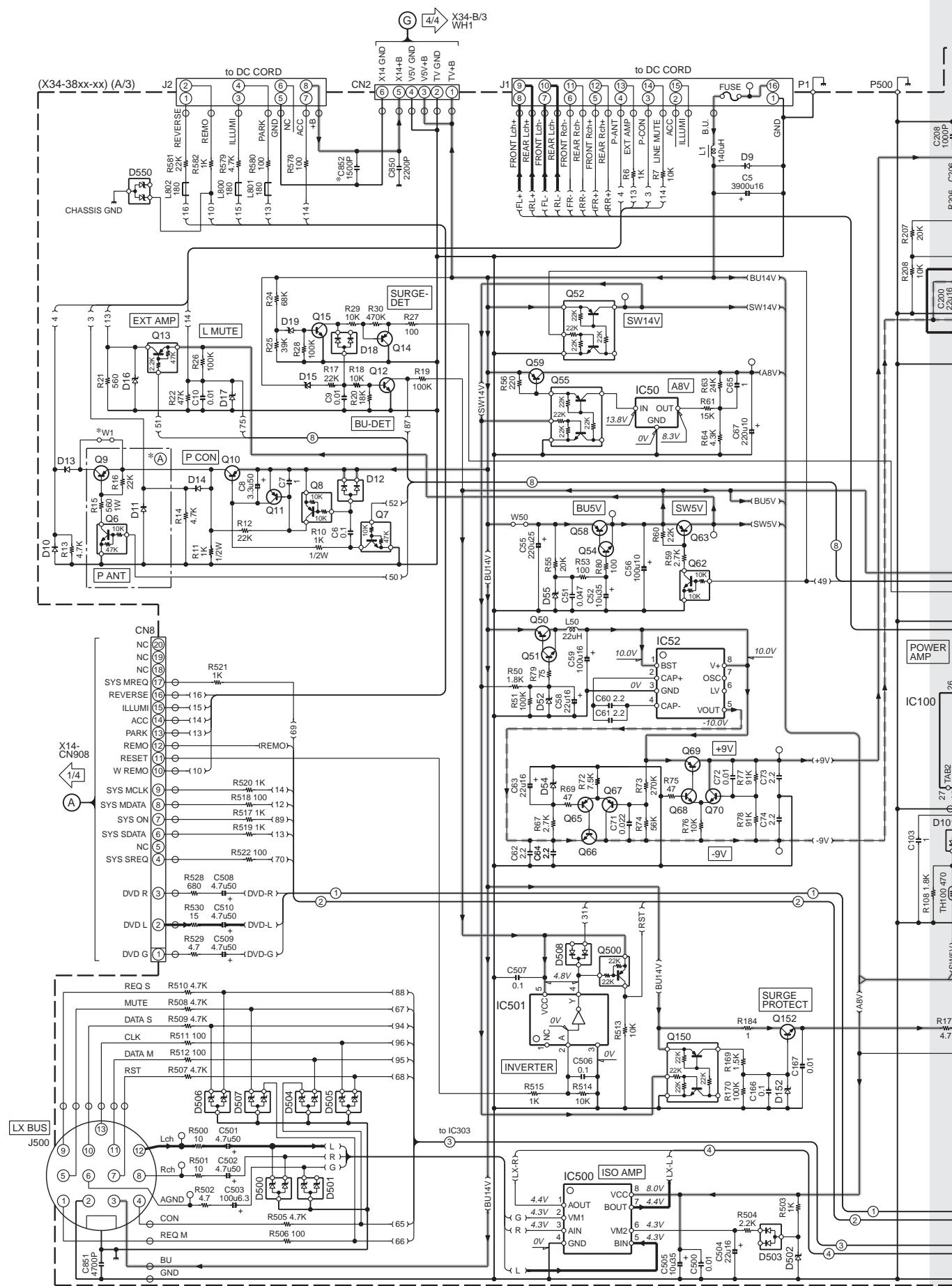


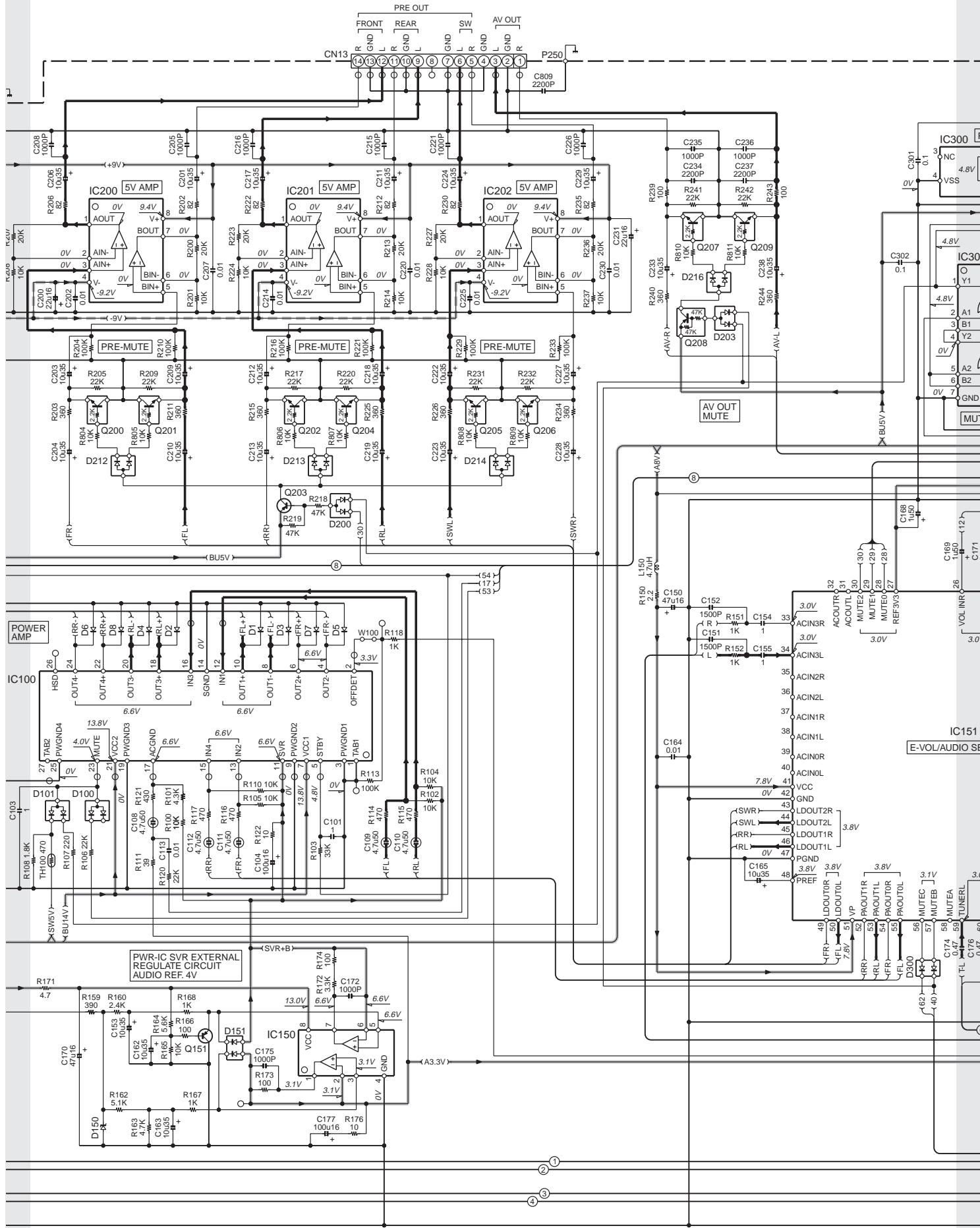
**CAUTION :** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).

► Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

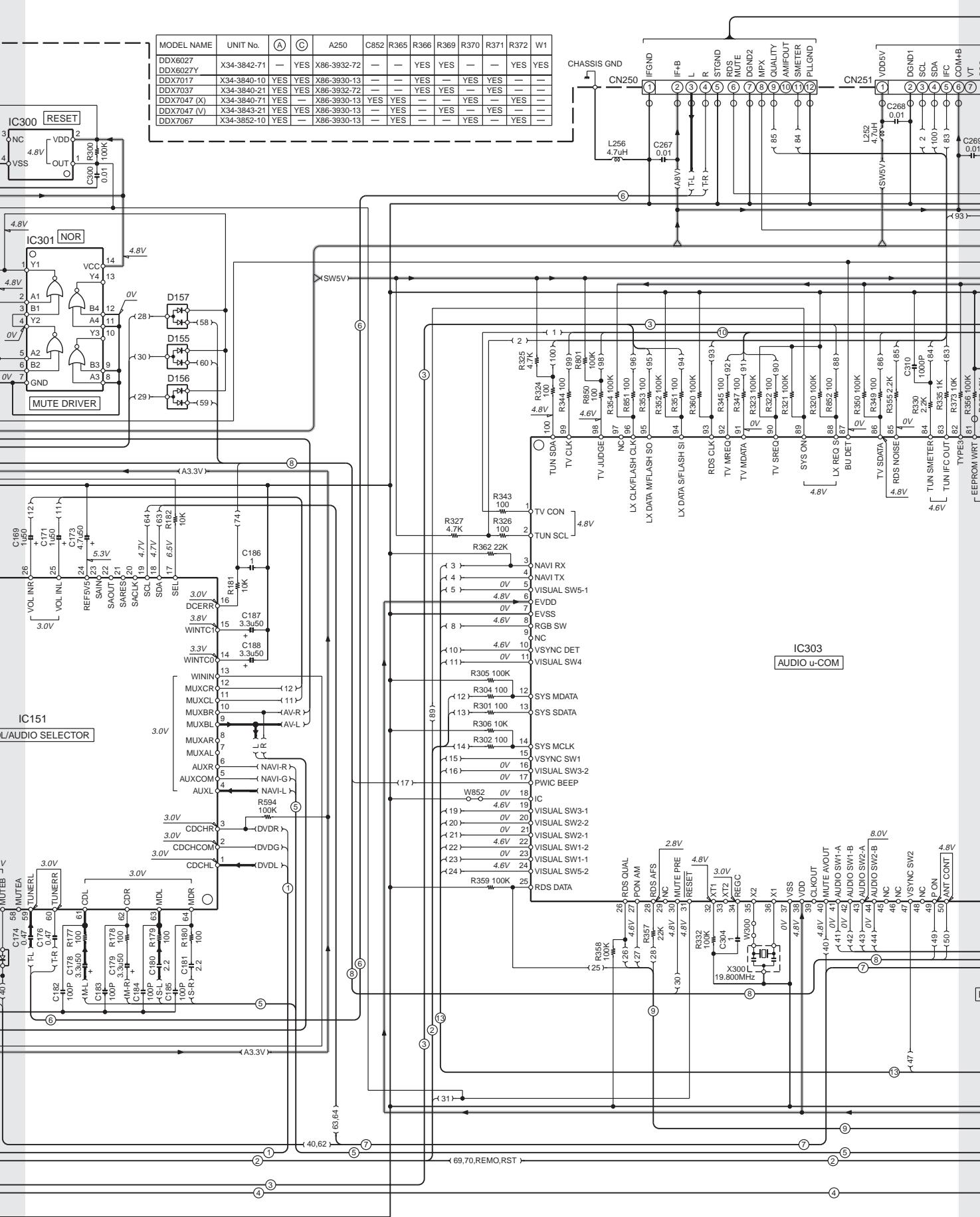
- DC voltages are measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

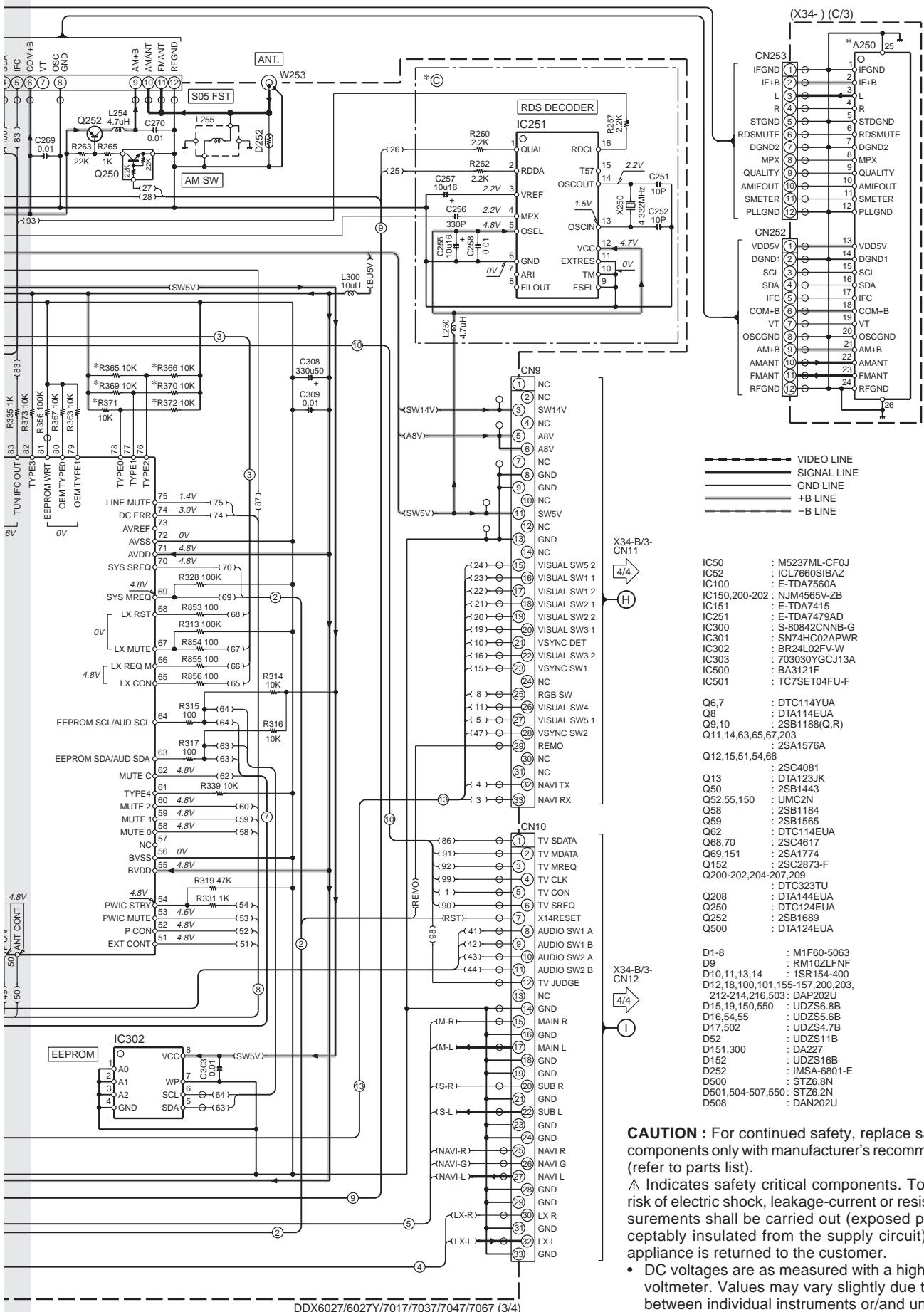
DDX6027/6027Y/7017  
DDX7037/7047/7067





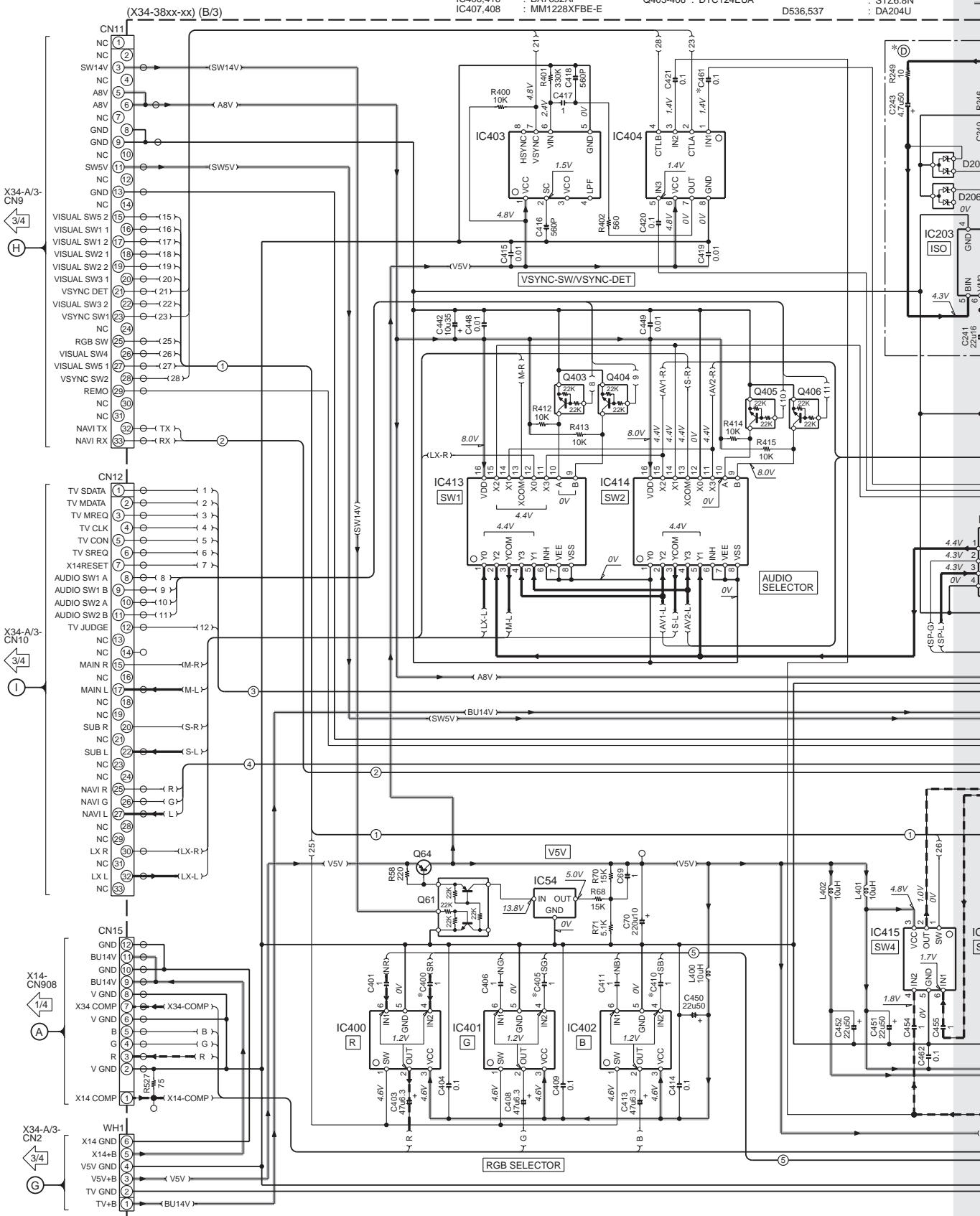
DDX6027/6027Y/7017  
DDX7037/7047/7067

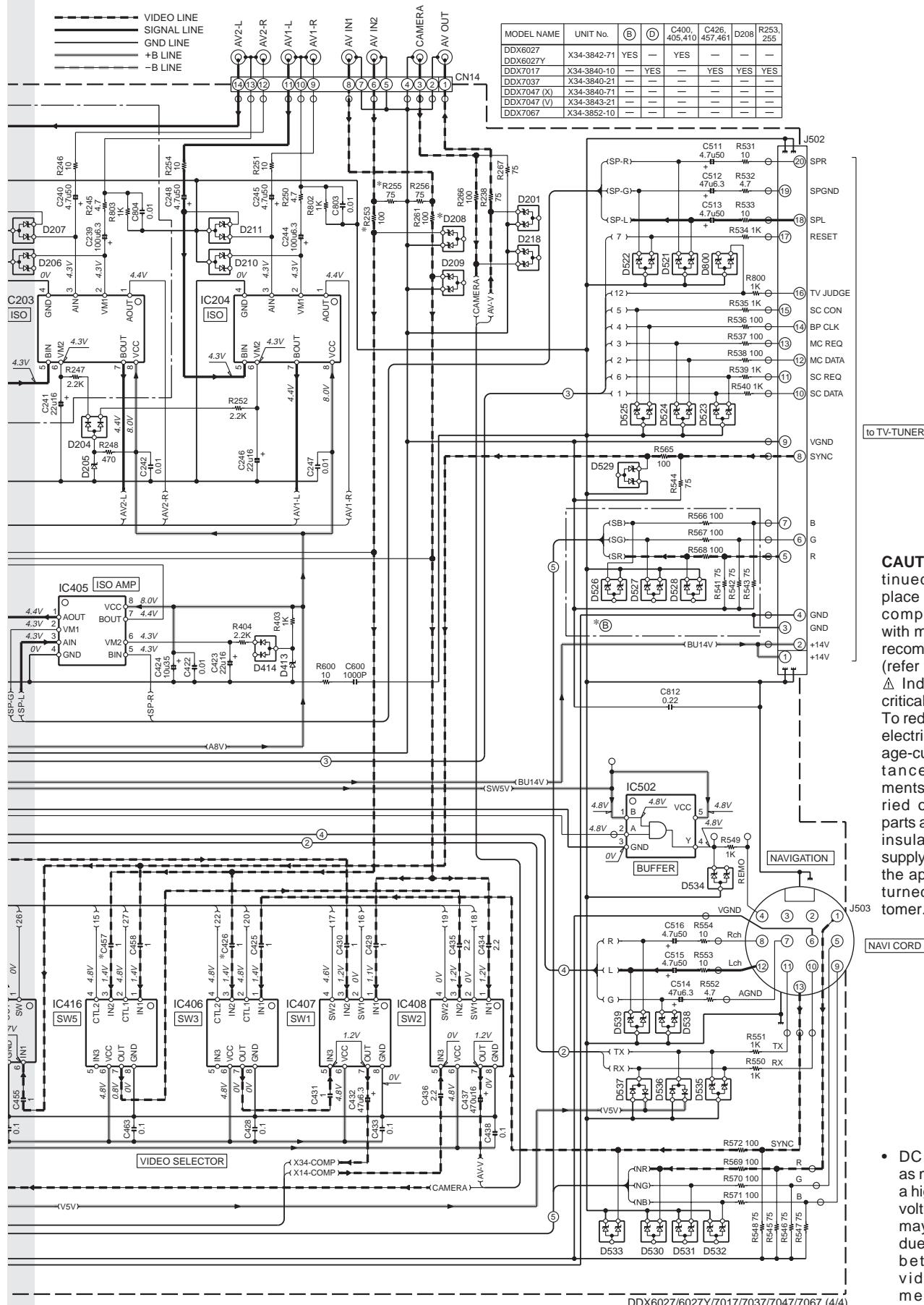




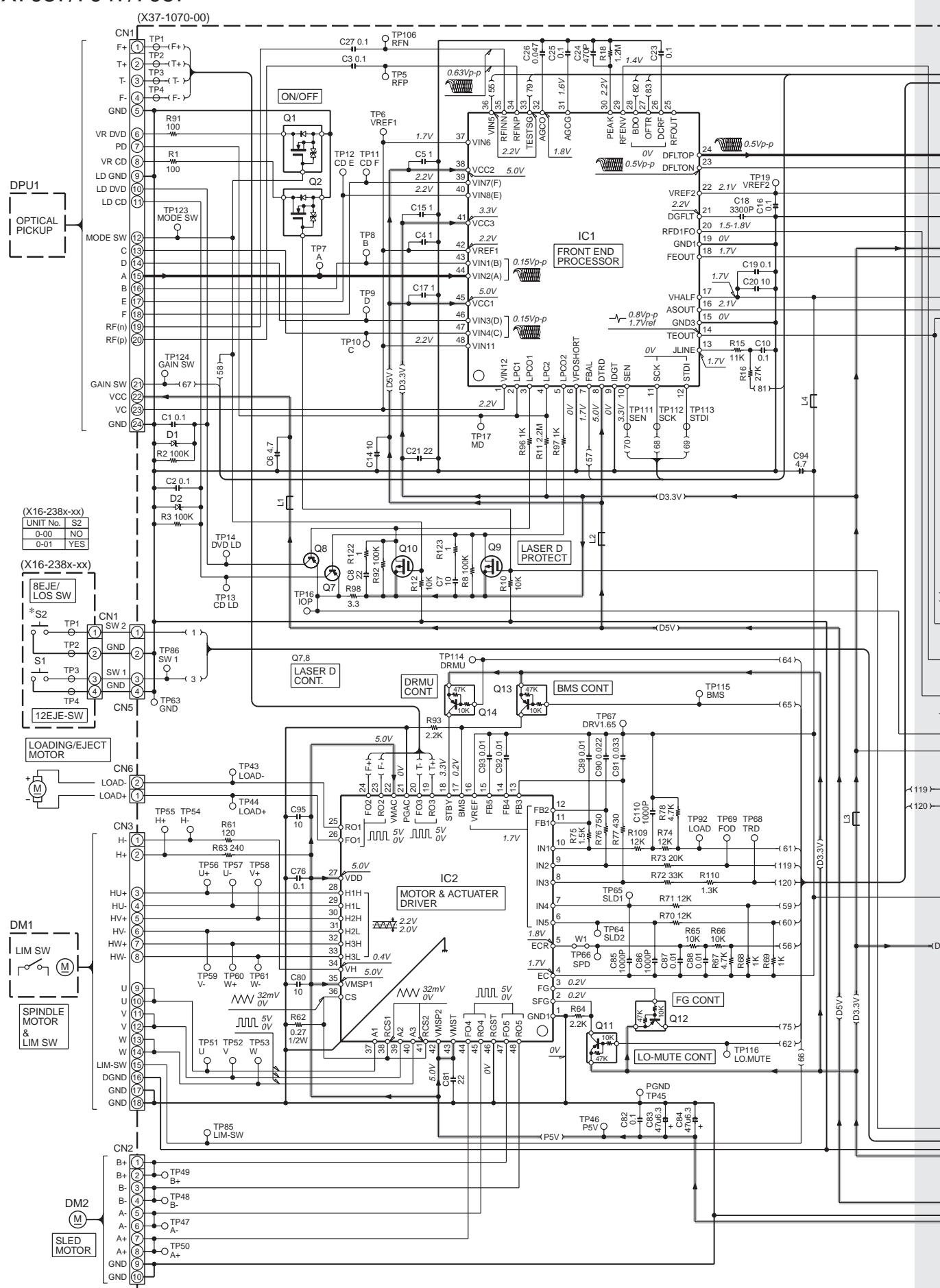
**DDX6027/6027Y/7017  
DDX7037/7047/7067**

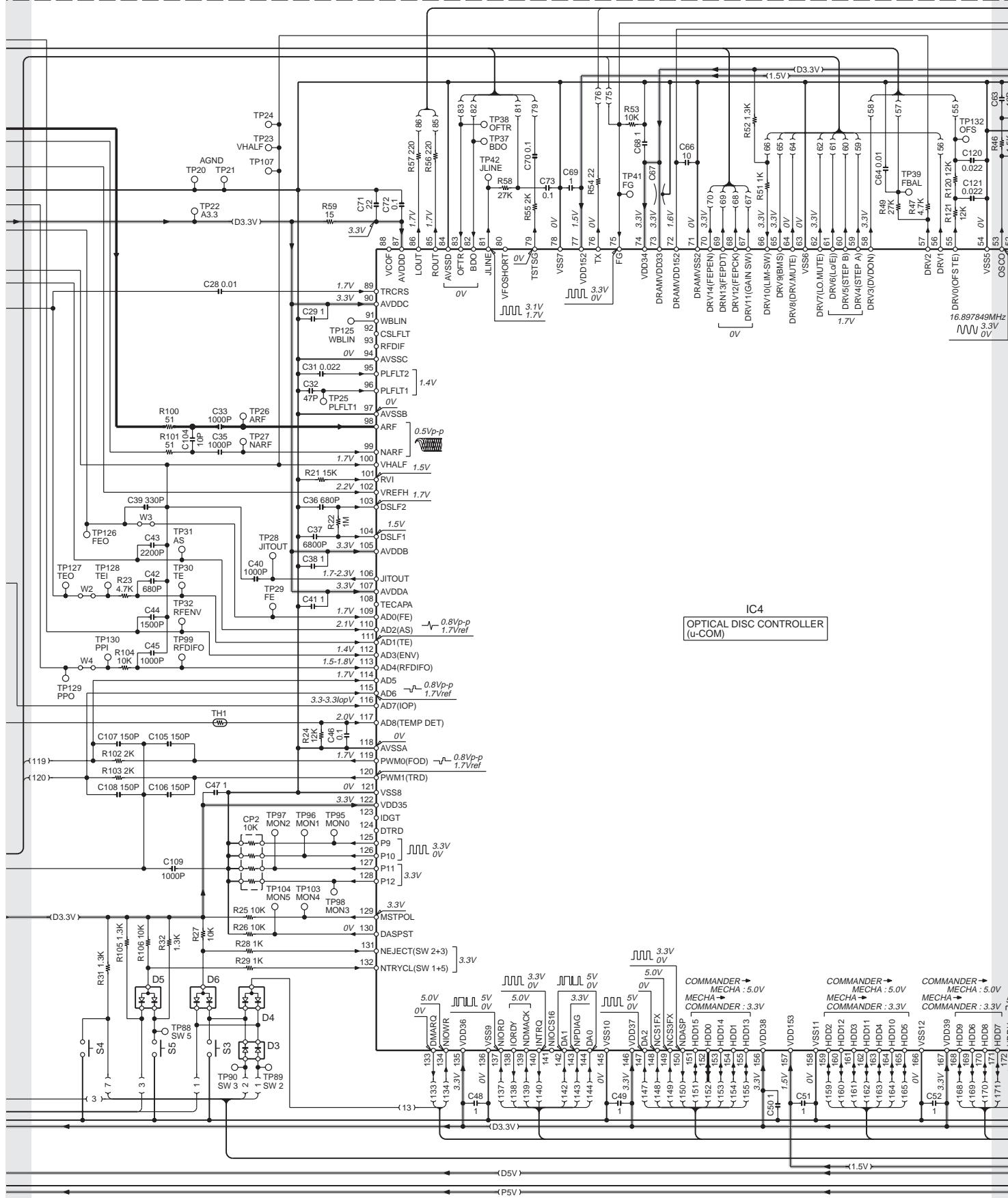
IC54	: M5237ML-CF0J	IC413,414	: TC4052BFT	D201,206,210,522-535,538,800
IC203,204,405	: BA3121F	IC502	: TC7SH08FU-F	: STZ6.2N
IC400-402,415	: MM150-E3			: DAP202U
IC403	: MM108XFFE-E	Q61	: UMC2N	D204,414
IC404	: BA7653AFV	Q64	: 2SB1184	D205,413
IC406,416	: BA7652AF	Q403-406	: DTC124EUA	D207-209,211,218,521,539
IC407,408	: MM1228XFER-E			: STZ6.8N
				: DAP24U1



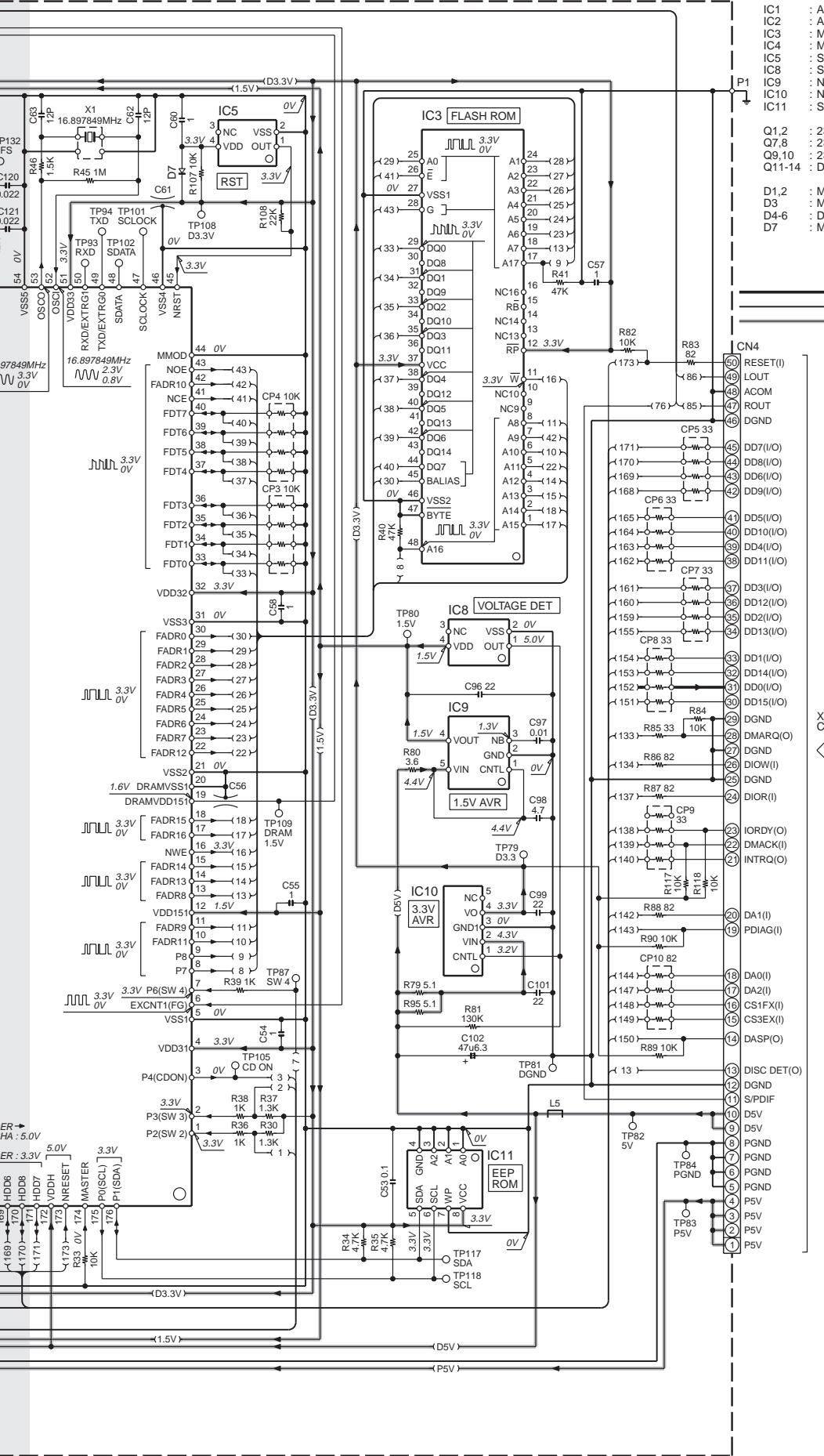


- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.





DDX6027/6027Y/7017  
DDX7037/7047/7067

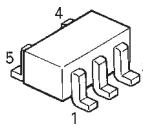


IC1 : AN22022A-V  
IC2 : AN41204A  
IC3 : M2W400DB55N6E  
IC4 : MN103S71F  
IC5 : S-80829CNPF  
IC8 : S-80813CNPF  
IC9 : NJM2880U115  
IC10 : NJM2886DL-33  
IC11 : S-24CS04AFT

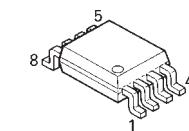
Q1,2 : 2SK3018  
Q7,8 : 2SB0970  
Q9,10 : 2SJ0536  
Q11-14 : DTA114YUA

D1,2 : MAZS0510M  
D3 : MA4ZD03  
D4-6 : DAP202U  
D7 : MA2S111

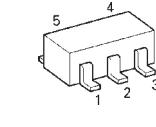
TC7SHU04FU-F



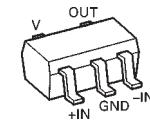
NJM4580V-ZB  
TC7WH123FU-F  
TC7WH126FU-F



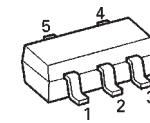
TC7S02FU-F



NJM2107F-ZB



TC7SET04FU-F



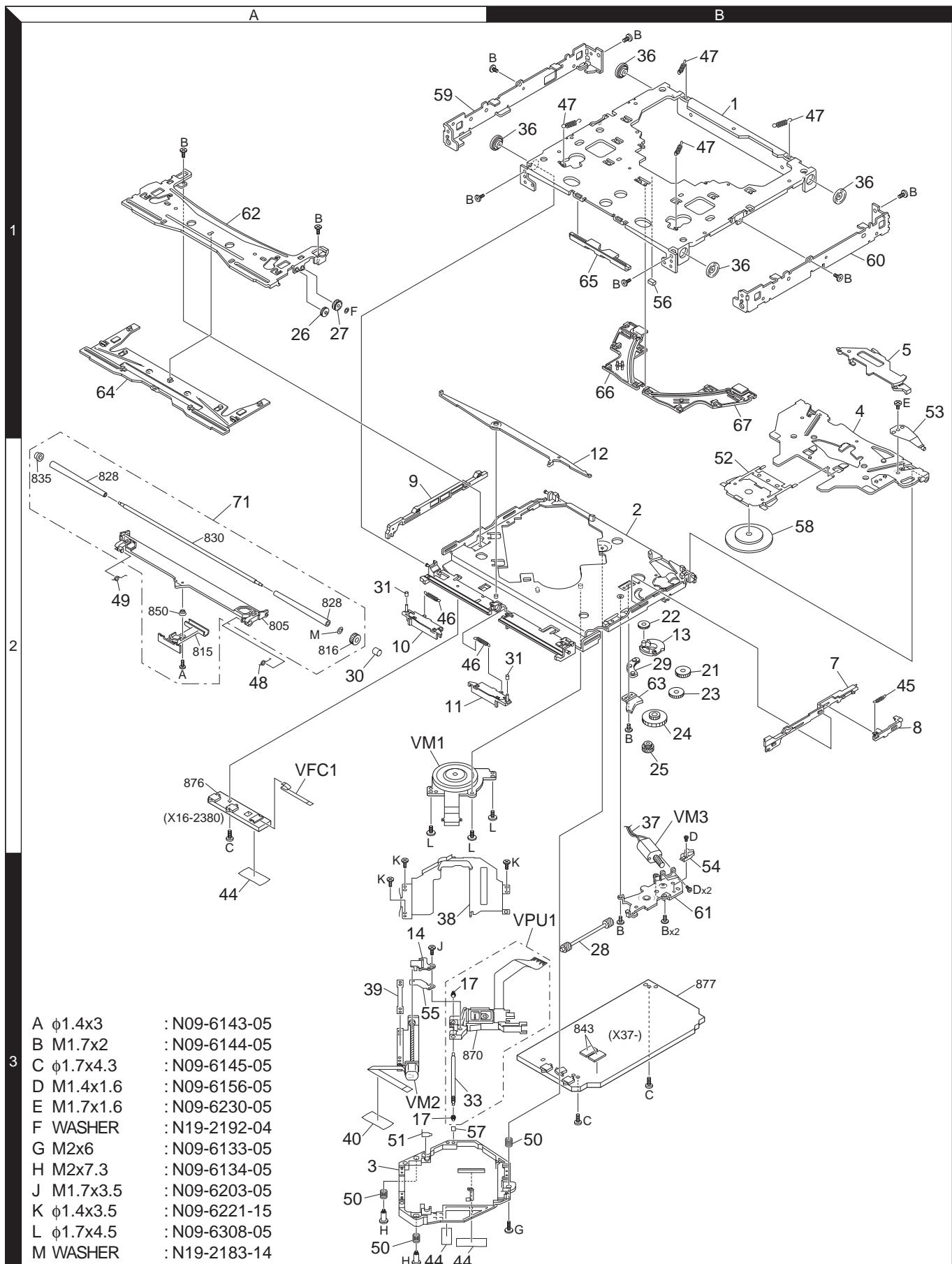
X14-CN501  
1/4

**CAUTION :** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).

△ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

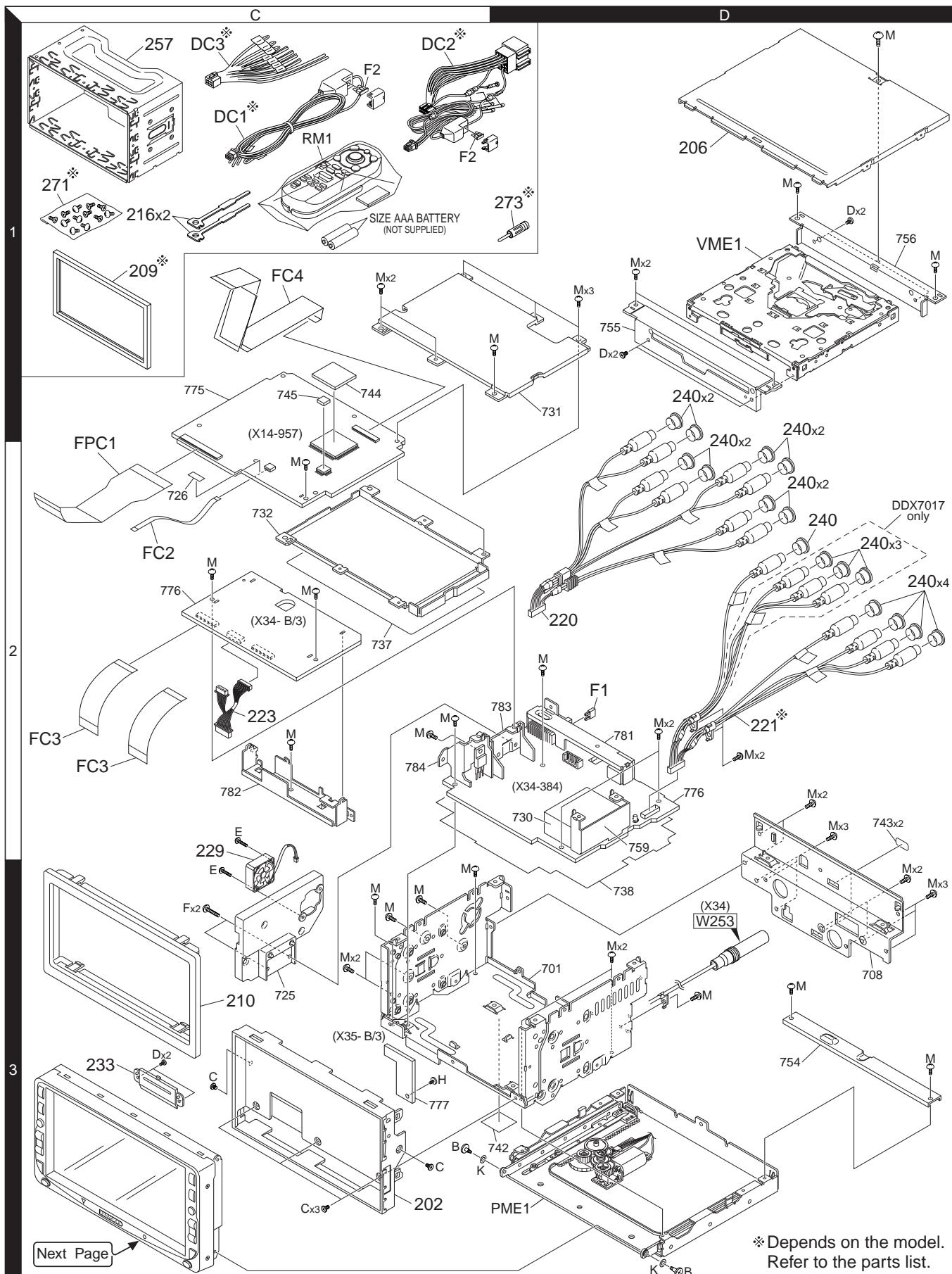
- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

## **EXPLODED VIEW (DVD MECHANISM)**



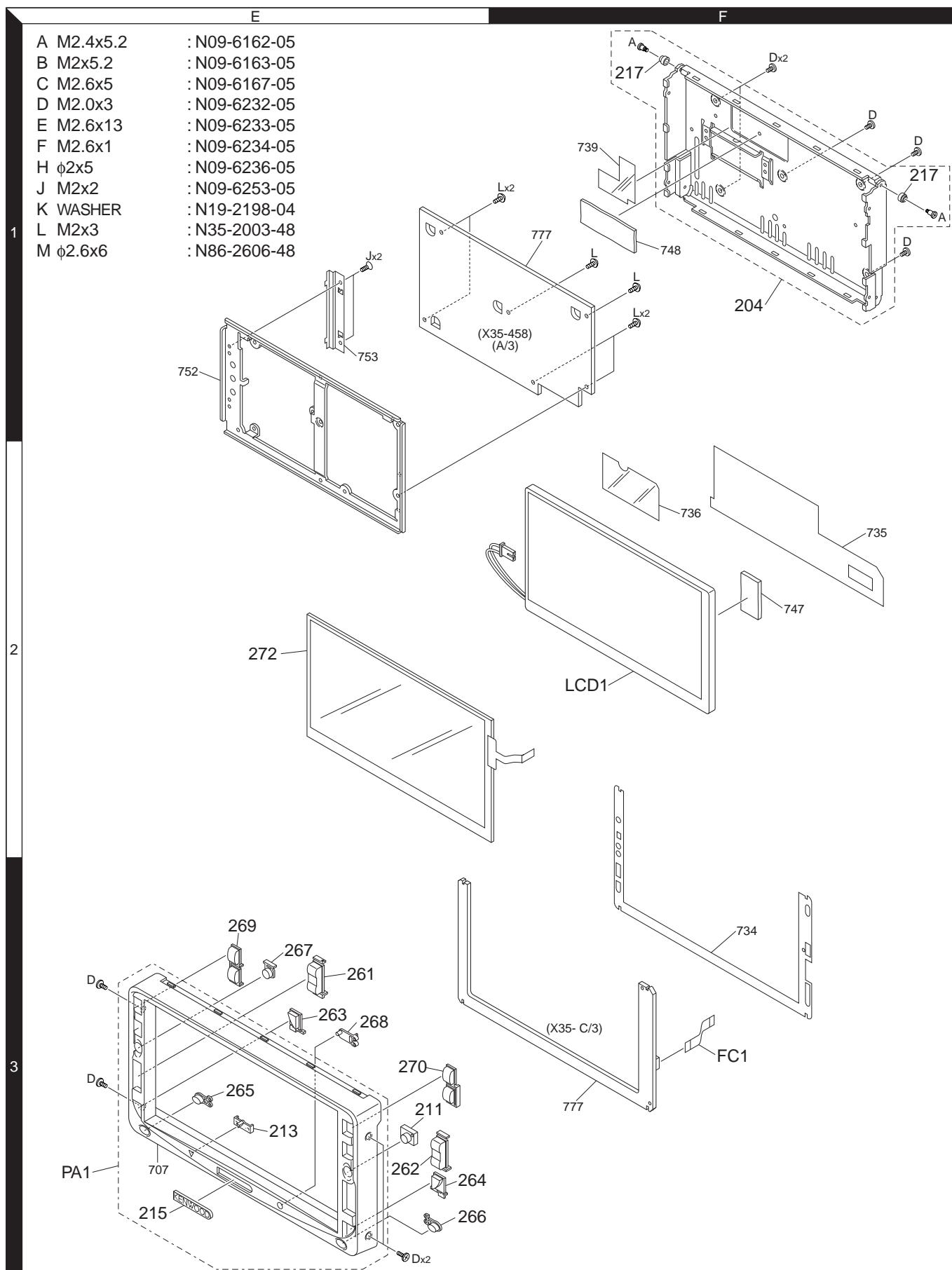
**Parts with the exploded numbers larger than 700 are not supplied.**

# **EXPLODED VIEW (UNIT)**



\*Depends on the model.  
Refer to the parts list.

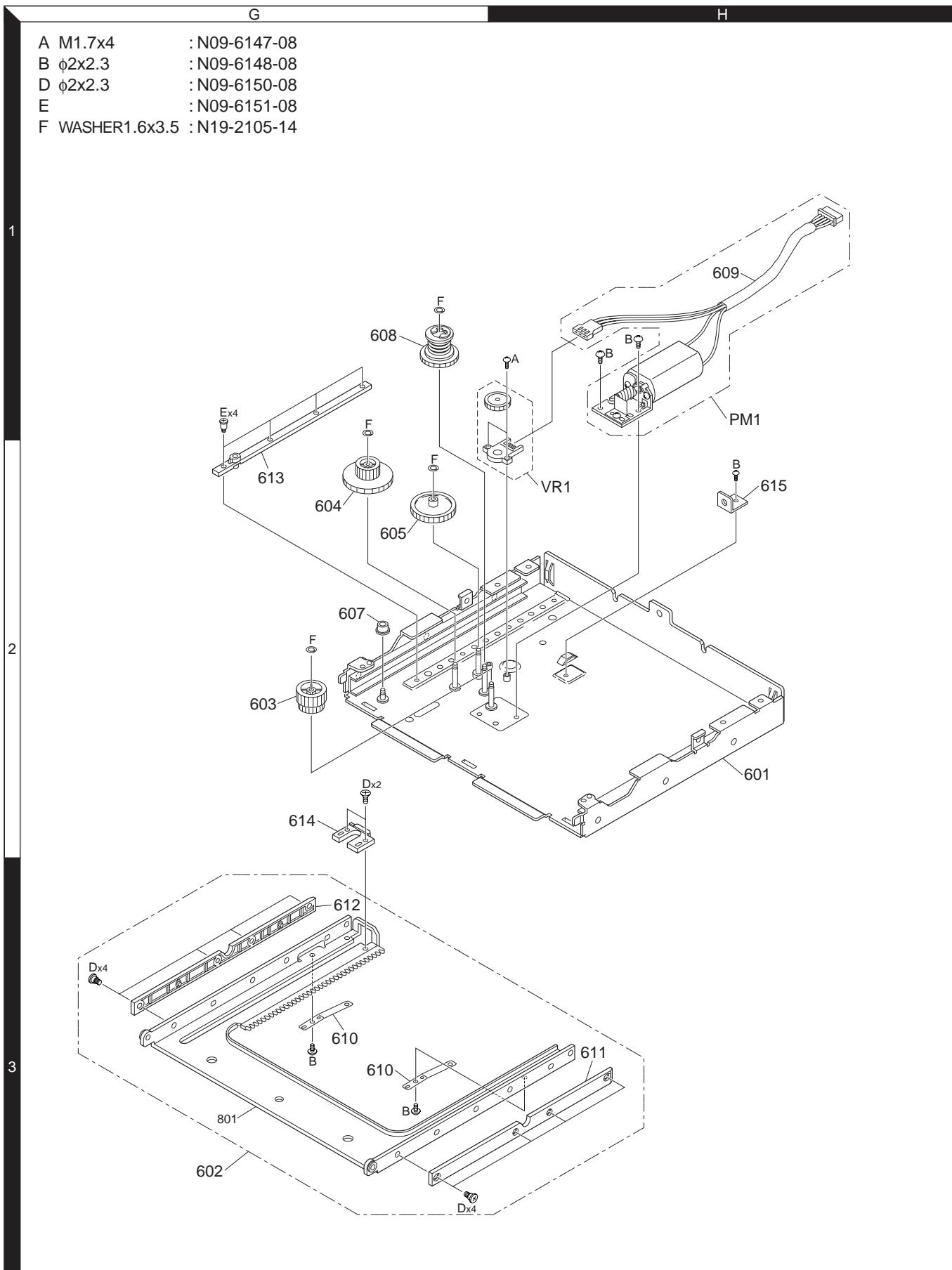
## EXPLODED VIEW (PANEL)



Parts with the exploded numbers larger than 700 are not supplied.

DDX6027/6027Y/7017  
DDX7037/7047/7067

## EXPLODED VIEW (PANEL MECHANISM)



## PARTS LIST

\* New parts

Parts without **Parts No.** are not supplied.Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.Teile ohne **Parts No.** werden nicht geliefert.

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
<b>DDX6027/6027Y/7017/7037/7047/7067</b>						<b>DDX6027/6027Y/7017/7037/7047/7067</b>					
202	3C	*	A22-3088-02	SUB PANEL ASSY	K1	DC3	1C	*	E30-6478-05	DC CORD	K1R1M2
202	3C	*	A22-3089-02	SUB PANEL ASSY	M2X2C1	DC3	1C	*	E30-6478-05	DC CORD	X2C1
202	3C	*	A22-3089-02	SUB PANEL ASSY	R1E3E4	FC1	3F	*	E39-0780-05	FLAT CABLE	
204	1F	*	A46-1801-13	REAR COVER ASSY		FC2	2C	*	E39-0781-05	FLAT CABLE	
206	1D		A52-0854-12	TOP PLATE		FC3	2C	*	E39-0773-05	FLAT CABLE	
PA1	3E	*	A64-3581-01	PANEL ASSY	K1	FC4	1C	*	E39-0770-15	FLAT CABLE	
PA1	3E	*	A64-3582-01	PANEL ASSY	R1X2	229	2C	*	F09-1992-05	FAN	K1R1M2
PA1	3E	*	A64-3583-01	PANEL ASSY	E3E4	233	3C	*	F19-1426-03	COVER	X2C1
PA1	3E	*	A64-3584-01	PANEL ASSY	M2	240	2D	*	F29-0626-04	INSULATING COVER	
PA1	3E	*	A64-3586-01	PANEL ASSY	C1	▲ F1	2D	*	F52-0023-05	FUSE (MINI BLADE TYPE) 10A	
PA1	3E	*	A64-3586-01	PANEL ASSY		▲ F2	1C	*	F52-0004-05	FUSE (MINI BLADE TYPE) 5A	
RM1	1C		A70-2072-05	REMOTE CONTROLLER AS (RC-DV601)		-			H10-4917-02	POLYSTYRENE FOAMED FIXTURE	
-			B46-0100-50	WARRANTY CARD	E3E4R1	-			H10-4918-02	POLYSTYRENE FOAMED FIXTURE	
-			B46-0100-50	WARRANTY CARD	K1M2X2	-			H12-2745-04	PACKING FIXTURE	
-			B46-0612-14	ID CARD	E3E4M2	-			H25-0338-04	PROTECTION BAG (250X350X0.03)	
-			B46-0612-14	ID CARD	X2	-			H25-1127-04	PROTECTION BAG (0.5X350X450)	
-			B46-0639-00	WARRANTY CARD	C1	-		*	H54-3530-03	ITEM CARTON CASE	K1
-		*	B46-0657-04	ID CARD	C1	-		*	H54-3531-03	ITEM CARTON CASE	R1
-		*	B54-4467-00	INSTALLATION MANUAL	K1R1	-		*	H54-3532-03	ITEM CARTON CASE	E3
-		*	B54-4468-00	INSTALLATION MANUAL	E3E4	-		*	H54-3533-03	ITEM CARTON CASE	E4
-		*	B54-4469-00	INSTALLATION MANUAL	M2X2C1	-		*	H54-3534-03	ITEM CARTON CASE	M2
-		*	B64-3115-00	INSTRUCTION MANUAL (ENGLISH)	K1R1	-		*	H54-3535-03	ITEM CARTON CASE	X2
-		*	B64-3116-00	INSTRUCTION MANUAL (FRENCH)	K1	-		*	H54-3536-03	ITEM CARTON CASE	C1
-		*	B64-3117-00	INSTRUCTION MANUAL (SPANISH)	K1R1	257	1C	J22-0171-03	MOUNTING HARDWARE ASSY		
-		*	B64-3118-00	INSTRUCTION MANUAL (PORTUGUESE)	R1	FPC1	2C	J84-0173-05	FLEXIBLE PRINTED WIRING BOARD		
-		*	B64-3119-00	INSTRUCTION MANUAL (ENGLISH)	E3E4	-					
-		*	B64-3120-00	INSTRUCTION MANUAL (FRENCH)	E3	261	3E	*	K24-4412-03	PUSH KNOB (SEEK)	
-		*	B64-3121-00	INSTRUCTION MANUAL (GERMAN)	E3	262	3E	*	K24-4411-03	PUSH KNOB (VOL)	
-		*	B64-3122-00	INSTRUCTION MANUAL (DUTCH)	E3	263	3E	*	K24-4413-03	PUSH KNOB (ATT)	C1
-		*	B64-3123-00	INSTRUCTION MANUAL (ITALIAN)	E3	264	3E	*	K24-4414-03	PUSH KNOB (AUTO)	K1R1X2
-		*	B64-3124-00	INSTRUCTION MANUAL (SPANISH)	E3	264	3E	*	K24-4414-03	PUSH KNOB (AUTO)	
-		*	B64-3125-00	INSTRUCTION MANUAL (PORTUGUESE)	E3	264	3E	*	K24-4415-03	PUSH KNOB (TI)	E3E4M2
-		*	B64-3127-00	INSTRUCTION MANUAL (ENGLISH)	M2X2C1	265	3E	*	K24-4416-03	PUSH KNOB (V.SEL)	
-		*	B64-3128-00	INSTRUCTION MANUAL (T-CHINESE)	M2	266	3E	*	K24-4417-03	PUSH KNOB (PLAY/PAUSE)	
-		*	B64-3129-00	INSTRUCTION MANUAL (KOREAN)	M2	267	3E	*	K24-4155-13	PUSH KNOB (SRC)	
-		*	B64-3130-00	INSTRUCTION MANUAL (S-CHINESE)	C1	268	3E	*	K24-4156-14	PUSH KNOB (RESET)	
209	1C		B07-3046-04	ESCUOTCHEON ASSY	M2X2C1	269	3E	*	K25-1772-03	PUSH KNOB (EJECT, FUNC)	
210	3C		B07-3105-02	ESCUOTCHEON		270	3E	*	K25-1773-03	PUSH KNOB (MODE, SCRNN)	
211	3E		B10-4546-13	FRONT GLASS		271	1C	*	N99-1776-05	SCREW SET	K1R1M2
213	3E		B19-2262-03	LIGHTING BOARD		271	1C	*	N99-1776-05	SCREW SET	X2C1
215	3E		B43-1271-04	KENWOOD BADGE	A	A	1F	*	N09-6162-05	STEPPED SCREW (M2.4X5.2)	
LCD1	2F		B38-1153-05	LCD	B	3D	*	N09-6163-05	STEPPED SCREW (M2X5.2)		
216	1C		D10-4674-04	LEVER	C	3C	*	N09-6167-05	MACHINE SCREW (M2.6X5)		
217	1F		D14-0792-04	ROLLER	D	3C	N09-6232-05	MACHINE SCREW (M2.0X3)			
PME1	3D		D40-2201-15	PANEL MECHANISM ASSY	E	2C	N09-6233-05	MACHINE SCREW (M2.6X13)			
220	2D	*	E30-6488-15	CORD WITH PINPLUG	F	3C	N09-6234-05	MACHINE SCREW (M2.6X1)			
221	2D	*	E30-6489-15	CORD WITH PINPLUG	H	3C	N09-6236-05	SEMS (TAPITTE SCREW) (T2.0 X 5)			
221	2D	*	E30-6490-25	CORD WITH PINPLUG	J	1E	N09-6253-05	MACHINE SCREW (M2X2)			
221	2D	*	E30-6490-25	CORD WITH PINPLUG	K	3D	N19-2198-04	FLAT WASHER (F2.5)			
223	2C	*	E39-0779-15	WIRING HARNESS	L	1F	N35-2003-48	BINDING HEAD MACHINE SCREW			
DC1	1C		E30-6475-15	DC CORD	M	2C	N86-2606-48	BINDING HEAD TAPITTE SCREW			
DC1	1C		E30-6475-15	DC CORD	K1R1M2	272	2E	S79-0846-05	SWITCH ASSY		
DC2	1C	*	E30-6477-15	DC CORD	X2C1						
DC2	1C	*	E30-6477-15	DC CORD	E3E4						

E3 : DDX6027    E4 : DDX6027Y (Europe)

K1 : DDX7017 (North America)

X2 : DDX7047 (Australia)    R1 : DDX7047 (Latin America)

C1 : DDX7067 (China)    M2 : DDX7037 (Other Areas)

△ Indicates safety critical components.

## PARTS LIST

DDX6027/6027Y/7017/7037/7047/7067

Ref. No.	A d d	N e w	Parts No.	Description		Desti- nation
273	1C		T90-0552-05	ANTENNA ADAPTOR		E3E4
VME1	1D		X92-5130-00	DVD MECHANISM ASSY (DVS-7000V)		

### VIDEO CONTROL UNIT (X14-957/958x-xx)

C31,32		CC73GCH1H471J	CHIP C	470PF	J	
C48,49		CC73GCH1H471J	CHIP C	470PF	J	
C100		CK73GB1H103K	CHIP C	0.010UF	K	
C101		C90-5670-05	ELECTRO	2200UF	16WV	
C102		CK73GB1H103K	CHIP C	0.010UF	K	
C103-105		CC73GCH1H151J	CHIP C	150PF	J	
C108		CK73GB1A105K	CHIP C	1.0UF	K	
C109-111		CK73GB1H104K	CHIP C	0.10UF	K	
C113		CK73GB1H104K	CHIP C	0.10UF	K	
C114		CK73EB1H474K	CHIP C	0.47UF	K	
C115-117		CK73GB1H104K	CHIP C	0.10UF	K	
C118		CE32BM1C221M	CHIP EL	220UF	16WV	
C119-121		CK73GB1H104K	CHIP C	0.10UF	K	
C122		CK73FB1C105K	CHIP C	1.0UF	K	
C123-126		CK73GB1H104K	CHIP C	0.10UF	K	
C127		CK73EB1C106K	CHIP C	10UF	K	
C128		CK73FB0J106K	CHIP C	10UF	K	
C130-133		C93-1367-05	CHIP C	10UF	K	
C134		CC73GCH1H101J	CHIP C	100PF	J	
C135		CC73GCH1H391J	CHIP C	390PF	J	
C136		C93-1367-05	CHIP C	10UF	K	
C137-139		CK73GB1H104K	CHIP C	0.10UF	K	
C140		CK73GB1H102K	CHIP C	1000PF	K	
C141		C93-1367-05	CHIP C	10UF	K	
C142		CK73GB1H104K	CHIP C	0.10UF	K	
C143,144		CE32AU1A560M	CHIP EL	56UF	10WV	
C145		CE32AU0J121M	CHIP EL	120UF	6.3WV	
C146		CE32AU1A560M	CHIP EL	56UF	10WV	
C147		CK73GB1H102K	CHIP C	1000PF	K	
C148,149		CK73GB1H104K	CHIP C	0.10UF	K	
C150		CK73EB1E225K	CHIP C	2.2UF	K	
C151		CK73GB1H104K	CHIP C	0.10UF	K	
C152		CE32AU1A560M	CHIP EL	56UF	10WV	
C153-155		CK73GB1H104K	CHIP C	0.10UF	K	
C156		CK73GB1A474K	CHIP C	0.47UF	K	
C158		CK73GB1H104K	CHIP C	0.10UF	K	
C159,160		C92-1909-05	ELECTRO	22UF	12.5WV	
C161		C92-1685-05	ELECTRO	47UF	6.3WV	
C162		CK73GB1H102K	CHIP C	1000PF	K	
C163		CK73GB1A474K	CHIP C	0.47UF	K	
C164		CK73GB1H102K	CHIP C	1000PF	K	
C165		CK73GB1A474K	CHIP C	0.47UF	K	
C166		CK73GB1H102K	CHIP C	1000PF	K	
C167,168		CK73GB1H104K	CHIP C	0.10UF	K	
C169		CK73GB1H102K	CHIP C	1000PF	K	
C170		CK73GB1H104K	CHIP C	0.10UF	K	
C171		CK73GB1H102K	CHIP C	1000PF	K	
C172,173		CK73GB1H104K	CHIP C	0.10UF	K	
C174		CK73GB1H102K	CHIP C	1000PF	K	
C175		CK73GB1H104K	CHIP C	0.10UF	K	

Ref. No.	A d d	N e w	Parts No.	Description			Desti- nation
C180,181			CK73FB1C105K	CHIP C	1.0UF	K	
C200,201			CK73GB1H103K	CHIP C	0.010UF	K	
C202			CC73GCH1H180J	CHIP C	18PF	J	
C203			CC73GCH1H220J	CHIP C	22PF	J	
C204			CK73GB1A105K	CHIP C	1.0UF	K	
C205			CK73FB0J106K	CHIP C	10UF	K	
C206-209			CK73GB1H104K	CHIP C	0.10UF	K	
C210			CK73GB1H103K	CHIP C	0.010UF	K	
C211,212			CK73GB1H104K	CHIP C	0.10UF	K	
C213,214			CK73GB1H103K	CHIP C	0.010UF	K	
C216			CK73GB1H103K	CHIP C	0.010UF	K	
C217			CK73GB1H104K	CHIP C	0.10UF	K	
C218,219			CK73GB1H103K	CHIP C	0.010UF	K	
C220,221			CK73GB1H104K	CHIP C	0.10UF	K	
C301			CK73FB0J106K	CHIP C	10UF	K	
C303			CK73GB1H104K	CHIP C	0.10UF	K	E3E4M2
C303			CK73GB1H104K	CHIP C	0.10UF	K	X2C1
C304			CK73FB0J106K	CHIP C	10UF	K	
C306			CC73GCH1H270J	CHIP C	27PF	J	E3E4M2
C306			CC73GCH1H270J	CHIP C	27PF	J	X2C1
C306			CC73GCH1H470J	CHIP C	47PF	J	K1R1
C307			CK73GB1H104K	CHIP C	0.10UF	K	
C309			CC73GCH1H180J	CHIP C	18PF	J	E3E4M2
C309			CC73GCH1H180J	CHIP C	18PF	J	X2C1
C310			CC73GCH1H220J	CHIP C	22PF	J	
C311-313			CK73GB1H104K	CHIP C	0.10UF	K	E3E4M2
C311-313			CK73GB1H104K	CHIP C	0.10UF	K	X2C1
C312,313			CK73GB1H104K	CHIP C	0.10UF	K	K1R1
C316			CK73GB1H104K	CHIP C	0.10UF	K	
C317			CC73GCH1H180J	CHIP C	18PF	J	
C318			CC73GCH1H270J	CHIP C	27PF	J	E3E4M2
C318			CC73GCH1H270J	CHIP C	27PF	J	X2C1
C319,320			CK73GB0J225K	CHIP C	2.2UF	K	
C321-323			CK73GB1A105K	CHIP C	1.0UF	K	
C324			CK73GB1H223K	CHIP C	0.022UF	K	
C325			CK73GB0J475K	CHIP C	4.7UF	K	
C326			CK73GB1H473K	CHIP C	0.047UF	K	
C332,333			CK73GB1A105K	CHIP C	1.0UF	K	E3E4M2
C332,333			CK73GB1A105K	CHIP C	1.0UF	K	X2C1
C334			CK73GB1H104K	CHIP C	0.10UF	K	
C335,336			CK73GB1A105K	CHIP C	1.0UF	K	
C335,336			CK73GB1A105K	CHIP C	1.0UF	K	
C337			CK73GB1A474K	CHIP C	0.47UF	K	
C338			CK73FB0J106K	CHIP C	10UF	K	
C339			CK73GB1H472K	CHIP C	4700PF	K	
C340			CK73GB1A105K	CHIP C	1.0UF	K	
C341			CK73FB0J106K	CHIP C	10UF	K	
C342,343			CK73GB1A105K	CHIP C	1.0UF	K	
C344			CK73GB1H223K	CHIP C	0.022UF	K	
C345-350			CK73GB1A105K	CHIP C	1.0UF	K	
C351			CK73FB1A225K	CHIP C	2.2UF	K	
C352			CK73GB1A105K	CHIP C	1.0UF	K	
C353			CK73GB1H103K	CHIP C	0.010UF	K	
C354,355			CK73FB1A225K	CHIP C	2.2UF	K	
C361			C92-1685-05	ELECTRO	47UF	6.3WV	

E3 : DDX6027 E4 : DDX6027Y (Europe)

K1 : DDX7017 (North America)

X2 : DDX7047 (Australia) R1 : DDX7047 (Latin America)

C1 : DDX7067 (China) M2 : DDX7037 (Other Areas)

△ Indicates safety critical components.

## PARTS LIST

## VIDEO CONTROL UNIT (X14-957/958x-xx)

Ref. No.	A d d	N e w	Parts No.	Description			Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description			Desti- nation
C362			CK73GB1H104K	CHIP C	0.10UF	K		C673,674			CK73GB1H104K	CHIP C	0.10UF	K	
C363			CK73FB0J106K	CHIP C	10UF	K		C675			CK73GB1A105K	CHIP C	1.0UF	K	
C364			CC73GCH1H331J	CHIP C	330PF	J		C701			CK73GB1H332K	CHIP C	3300PF	K	
C365			CK73GB1A105K	CHIP C	1.0UF	K		C702,703			CC73GCH1H681J	CHIP C	680PF	J	
C366,367			CK73GB1H104K	CHIP C	0.10UF	K		C704			CK73GB1H104K	CHIP C	0.10UF	K	
C368			CK73GB1A105K	CHIP C	1.0UF	K		C705			CK73EB1C106K	CHIP C	10UF	K	
C369			CK73GB1H104K	CHIP C	0.10UF	K		C706			CK73EB1A475K	CHIP C	4.7UF	K	
C370			CK73GB1H103K	CHIP C	0.010UF	K		C707			CC73GCH1H101J	CHIP C	100PF	J	
C371			CK73GB0J475K	CHIP C	4.7UF	K		C708			CK73GB1H332K	CHIP C	3300PF	K	
C372			CK73GB1H153K	CHIP C	0.015UF	K		C709,710			CC73GCH1H681J	CHIP C	680PF	J	
C373			CC73GCH1H151J	CHIP C	150PF	J		C711			CK73EB1A475K	CHIP C	4.7UF	K	
C374			CC73GCH1E102J	CHIP C	1000PF	J		C712			CC73GCH1H101J	CHIP C	100PF	J	
C375			CC73GCH1H390J	CHIP C	39PF	J		C713			CK73EB1C106K	CHIP C	10UF	K	
C376			CC73GCH1H150J	CHIP C	15PF	J		C714,715			CK73GB1H104K	CHIP C	0.10UF	K	
C377			C93-1394-05	CHIP C	5PF	J		C717			CK73FB0J106K	CHIP C	10UF	K	
C390			CK73GB1A105K	CHIP C	1.0UF	K		C718			CK73GB1H104K	CHIP C	0.10UF	K	
C402			CK73FB0J106K	CHIP C	10UF	K		C752			CK73GB1H104K	CHIP C	0.10UF	K	
C403			CK73GB1H104K	CHIP C	0.10UF	K		C770,771			CK73GB1H104K	CHIP C	0.10UF	K	
C404			CK73GB1A105K	CHIP C	1.0UF	K		C772			CK73FB0J106K	CHIP C	10UF	K	
C405-409			CK73GB1H104K	CHIP C	0.10UF	K		C773-775			CK73GB1H104K	CHIP C	0.10UF	K	
C410			CK73FB0J106K	CHIP C	10UF	K		C800			CC73GCH1H101J	CHIP C	100PF	J	
C411			CK73GB1H104K	CHIP C	0.10UF	K		C802			CK73GB1A105K	CHIP C	1.0UF	K	
C412			CK73GB1A105K	CHIP C	1.0UF	K		C803			CC73GCH1H101J	CHIP C	100PF	J	
C413-416			CK73GB1H104K	CHIP C	0.10UF	K		C804			CK73GB1H104K	CHIP C	0.10UF	K	
C419-423			CK73GB1H104K	CHIP C	0.10UF	K		C850,851			CK73GB1H104K	CHIP C	0.10UF	K	
C424,425			CK73GB1H103K	CHIP C	0.010UF	K		C918			CK73FB0J106K	CHIP C	10UF	K	
C426			CC73GCH1H100D	CHIP C	10PF	D		C926,927			CK73GB1H104K	CHIP C	0.10UF	K	
C429,430			CC73GCH1H020C	CHIP C	2.0PF	C		CN101			E41-2550-05		PIN ASSY		
C501			CK73GB1H104K	CHIP C	0.10UF	K		CN501			E41-2197-05		FLAT CABLE CONNECTOR		
C502			C92-1452-05	ELECTRO	100UF	10WV		CN802			E41-2051-05		PIN ASSY		
C520			CK73FB0J106K	CHIP C	10UF	K		CN850			E41-2526-05		FLAT CABLE CONNECTOR		
C540			CK73GB1A105K	CHIP C	1.0UF	K		CN851			E41-2542-05		FLAT CABLE CONNECTOR		
C541,542			CC73GCH1H100D	CHIP C	10PF	D		CN904			E41-2529-05		PIN ASSY		
C560			CK73FB0J106K	CHIP C	10UF	K		J961			E56-0854-05		CYLINDRICAL RECEPTACLE		
C561-567			CK73GB1H104K	CHIP C	0.10UF	K									
C581			CK73GB1H104K	CHIP C	0.10UF	K		CF100-105			L72-0780-05		CERAMIC FILTER		
C601-606			CK73GB1H104K	CHIP C	0.10UF	K		L8			L19-0733-15		TRANSFORMER FOR CONVERTER		
C607			CK73GB1A105K	CHIP C	1.0UF	K		L100			L92-0373-05		CHIP FERRITE		
C608-615			CK73GB1H104K	CHIP C	0.10UF	K		L101,102			L33-1914-05		CHOKE COIL		
C616			CK73FB0J106K	CHIP C	10UF	K		L103			L33-2277-05		CHOKE COIL		
C617			CK73GB1A105K	CHIP C	1.0UF	K		L104,105			L33-2248-05		CHOKE COIL		
C618-628			CK73GB1H104K	CHIP C	0.10UF	K		L106,107			L41-1005-33		SMALL FIXED INDUCTOR (10U)		
C650			CK73GB1H104K	CHIP C	0.10UF	K		L108			L79-0958-05		LINE FILTER		
C651,652			CK73GB1A105K	CHIP C	1.0UF	K		L109			L92-0373-05		CHIP FERRITE		
C654-656			CK73GB1A105K	CHIP C	1.0UF	K		L200			L92-0319-05		CHIP FERRITE		
C657,658			CK73GB1H104K	CHIP C	0.10UF	K		L300			L41-4705-33		SMALL FIXED INDUCTOR		
C659			C92-1452-05	ELECTRO	100UF	10WV		L301			L41-1005-33		SMALL FIXED INDUCTOR (10U)		
C660			CK73FB0J106K	CHIP C	10UF	K		L350			L41-1005-33		SMALL FIXED INDUCTOR (10U)		
C661,662			CK73GB1H104K	CHIP C	0.10UF	K		L400			L41-1005-33		SMALL FIXED INDUCTOR (10U)		
C663			CK73FB0J106K	CHIP C	10UF	K		L402			L41-1005-33		SMALL FIXED INDUCTOR (10U)		
C664			C92-1685-05	ELECTRO	47UF	6.3WV		L520			L92-0373-05		CHIP FERRITE		
C665-668			CK73GB1H104K	CHIP C	0.10UF	K		L540			L41-1005-33		SMALL FIXED INDUCTOR (10U)		
C669			CK73FB0J106K	CHIP C	10UF	K		L560			L92-0373-05		CHIP FERRITE		
C670			CK73GB1H104K	CHIP C	0.10UF	K		L601			L92-0373-05		CHIP FERRITE		
C671,672			CK73GB1A105K	CHIP C	1.0UF	K		L603			L92-0373-05		CHIP FERRITE		

E3 : DDX6027    E4 : DDX6027Y (Europe)

K1 : DDX7017 (North America)

X2 : DDX7047 (Australia)    R1 : DDX7047 (Latin America)

C1 : DDX7067 (China)    M2 : DDX7037 (Other Areas)

△ Indicates safety critical components.

## PARTS LIST

### VIDEO CONTROL UNIT (X14-957/958x-xx)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
L650			L41-1005-33	SMALL FIXED INDUCTOR (10U)		R142			RK73GB2A273J	CHIP R 27K	J 1/10W
L651			L92-0373-05	CHIP FERRITE		R143			RK73GB2A100J	CHIP R 10	J 1/10W
L701,702			L41-1005-33	SMALL FIXED INDUCTOR (10U)		R144			RK73GB2A222J	CHIP R 2.2K	J 1/10W
X200			L78-1210-05	RESONATOR (4.95MHZ)		R145			RK73GB2A332J	CHIP R 3.3K	J 1/10W
X201			L77-2917-05	CRYSTAL RESONATOR (32.768KHZ)		R146,147			RK73GB2A100J	CHIP R 10	J 1/10W
X300			L77-2806-05	CRYSTAL RESONATOR (3.579545MHZ)	E3E4M2	R148			RN73GH1J133D	CHIP R 13K	D 1/16W
X301			L77-2807-05	CRYSTAL RESONATOR (4.433619MHZ)	X2C1	R149			RN73GH1J103D	CHIP R 10K	D 1/16W
X301			L77-2807-05	CRYSTAL RESONATOR (4.433619MHZ)	X2C1	R150			RN73GH1J132D	CHIP R 1.3K	D 1/16W
X360			L78-0549-05	RESONATOR (15.734KHZ)		R151			RN73GH1J473D	CHIP R 47K	D 1/16W
X540			L77-2866-05	CRYSTAL RESONATOR (27MHZ)		R152			RN73GH1J153D	CHIP R 15K	D 1/16W
CP400-407			RK74HB1J330J	CHIP-COM 33	J 1/16W	R153			RN73GH1J163D	CHIP R 16K	D 1/16W
CP501-505			RK74HB1J471J	CHIP-COM 470	J 1/16W	R154			RN73GH1J182D	CHIP R 1.8K	D 1/16W
CP506-510			RK74HB1J103J	CHIP-COM 10K	J 1/16W	R155			RN73GH1J132D	CHIP R 1.3K	D 1/16W
CP601-604			RK74HB1J472J	CHIP-COM 4.7K	J 1/16W	R156			RN73GH1J683D	CHIP R 68K	D 1/16W
CP605			RK74HB1J470J	CHIP-COM 47	J 1/16W	R157			RN73GH1J393D	CHIP R 39K	D 1/16W
CP606-612			RK74HB1J101J	CHIP-COM 100	J 1/16W	R158			RN73GH1J4021D	CHIP R 4.02K	D 1/16W
CP613,614			RK74HB1J330J	CHIP-COM 33	J 1/16W	R159			RN73GH1J103D	CHIP R 10K	D 1/16W
CP615-618			RK74HB1J472J	CHIP-COM 4.7K	J 1/16W	R161			R92-3475-05	CHIP R 0.27	F 1/2W
CP619-625			RK74HB1J220J	CHIP-COM 22	J 1/16W	R162			RK73GB2A104J	CHIP R 100K	J 1/10W
R11-14			RK73GB2A220J	CHIP R 22	J 1/10W	R163			RN73GH1J243D	CHIP R 24K	D 1/16W
R15,16			RK73GB2A101J	CHIP R 100	J 1/10W	R164			RK73GB2A102J	CHIP R 1.0K	J 1/10W
R39,40			RK73GB2A101J	CHIP R 100	J 1/10W	R165			RK73GB2A473J	CHIP R 47K	J 1/10W
R44			RK73GB2A103J	CHIP R 10K	J 1/10W	R166			RK73GB2A272J	CHIP R 2.7K	J 1/10W
R51,52			RK73GB2A101J	CHIP R 100	J 1/10W	R167			RK73GB2A224J	CHIP R 220K	J 1/10W
R96			RK73GB2A222J	CHIP R 2.2K	J 1/10W	R168			RK73GB2A102J	CHIP R 1.0K	J 1/10W
R97			RK73GB2A473J	CHIP R 47K	J 1/10W	R169			RK73GB2A223J	CHIP R 22K	J 1/10W
R98			RN73GH1J243D	CHIP R 24K	D 1/16W	R170			RK73GB2A103J	CHIP R 10K	J 1/10W
R99			RN73GH1J472D	CHIP R 4.7K	D 1/16W	R171			RK73GB2A563J	CHIP R 56K	J 1/10W
R100			RN73GH1J104D	CHIP R 100K	D 1/16W	R172			RK73GB2A102J	CHIP R 1.0K	J 1/10W
R101			RN73GH1J513D	CHIP R 51K	D 1/16W	R174			RN73GH1J114D	CHIP R 110K	D 1/16W
R102			RN73GH1J393D	CHIP R 39K	D 1/16W	R176			RN73GH1J114D	CHIP R 110K	D 1/16W
R103			RK73GB2A122J	CHIP R 1.2K	J 1/10W	R178			RN73GH1J114D	CHIP R 110K	D 1/16W
R104			RN73GH1J393D	CHIP R 39K	D 1/16W	R179			RN73GH1J133D	CHIP R 13K	D 1/16W
R105			RN73GH1J333D	CHIP R 33K	D 1/16W	R180			RK73GB2A392J	CHIP R 3.9K	J 1/10W
R106			RN73GH1J393D	CHIP R 39K	D 1/16W	R181			RK73GB2A222J	CHIP R 2.2K	J 1/10W
R107			RK73GB2A103J	CHIP R 10K	J 1/10W	R182			RK73GB2A153J	CHIP R 15K	J 1/10W
R109			RK73GB2A103J	CHIP R 10K	J 1/10W	R183			RK73GB2A104J	CHIP R 100K	J 1/10W
R110			RK73GH2A334D	CHIP R 330K	D 1/10W	R184			RK73GB2A303J	CHIP R 30K	J 1/10W
R111			RK73GB2A562J	CHIP R 5.6K	J 1/10W	R186			RK73GB2A104J	CHIP R 100K	J 1/10W
R112			RK73GH2A334D	CHIP R 330K	D 1/10W	R188			RK73GB2A104J	CHIP R 100K	J 1/10W
R113			RK73GB2A224J	CHIP R 220K	J 1/10W	R189			RN73GH1J243D	CHIP R 24K	D 1/16W
R114			RN73GH1J682D	CHIP R 6.8K	D 1/16W	R190			RN73GH1J133D	CHIP R 13K	D 1/16W
R115			R92-5088-05	CHIP R 3.3K	J 3/4W	R191			RK73GB2A104J	CHIP R 100K	J 1/10W
R116			RK73GB2A912J	CHIP R 9.1K	J 1/10W	R192,193			RK73GB2A100J	CHIP R 10	J 1/10W
R117			RK73GB2A153J	CHIP R 15K	J 1/10W	R195			RK73EB2E331J	CHIP R 330	J 1/4W
R118			RK73FB2B123J	CHIP R 12K	J 1/8W	R196			RN73GH1J243D	CHIP R 24K	D 1/16W
R119			RN73GH1J104D	CHIP R 100K	D 1/16W	R197			RN73GH1J133D	CHIP R 13K	D 1/16W
R120			RN73GH1J683D	CHIP R 68K	D 1/16W	R198			RK73GB2A104J	CHIP R 100K	J 1/10W
R121			RK73GB2A473J	CHIP R 47K	J 1/10W	R199			RK73EB2E331J	CHIP R 330	J 1/4W
R122-124			RK73GB2A104J	CHIP R 100K	J 1/10W	R200			RK73GB2A103J	CHIP R 10K	J 1/10W
R125-127			RK73GB2A224J	CHIP R 220K	J 1/10W	R202			RK73GB2A103J	CHIP R 10K	J 1/10W
R129			RK73GB2A473J	CHIP R 47K	J 1/10W	R203			RK73GB2A103J	CHIP R 10K	J 1/10W
R137			RK73GB2A473J	CHIP R 47K	J 1/10W	R203,204			RK73GB2A103J	CHIP R 10K	J 1/10W
R140			RK73GB2A101J	CHIP R 100	J 1/10W	R204			RK73GB2A103J	CHIP R 10K	J 1/10W
R141			RK73GB2A103J	CHIP R 10K	J 1/10W	R205			RK73GB2A103J	CHIP R 10K	J 1/10W

E3 : DDX6027 E4 : DDX6027Y (Europe)

K1 : DDX7017 (North America)

X2 : DDX7047 (Australia) R1 : DDX7047 (Latin America)

C1 : DDX7067 (China) M2 : DDX7037 (Other Areas)

△ Indicates safety critical components.

## PARTS LIST

## VIDEO CONTROL UNIT (X14-957/958x-xx)

Ref. No.	A d d	N e w	Parts No.	Description				Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description				Desti- nation
R205,206			RK73GB2A103J	CHIP R	10K	J	1/10W	K1	R313			RK73GB2A473J	CHIP R	47K	J	1/10W	
R206			RK73GB2A103J	CHIP R	10K	J	1/10W	R1M2	R320			RK73GB2A101J	CHIP R	100	J	1/10W	
R207			RK73GB2A103J	CHIP R	10K	J	1/10W	C1	R321			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R207			RK73GB2A103J	CHIP R	10K	J	1/10W	E3E4X2	R360,361			RK73GB2A303J	CHIP R	30K	J	1/10W	
R211,212			RK73GB2A103J	CHIP R	10K	J	1/10W		R362			RK73GB2A472J	CHIP R	4.7K	J	1/10W	
R217,218			RK73GB2A473J	CHIP R	47K	J	1/10W		R363			RK73GB2A202J	CHIP R	2.0K	J	1/10W	
R219			RK73GB2A333J	CHIP R	33K	J	1/10W		R364			RK73GB2A361J	CHIP R	360	J	1/10W	
R220-224			RK73GB2A473J	CHIP R	47K	J	1/10W		R365			RK73GB2A914J	CHIP R	910K	J	1/10W	
R225			RK73GB2A104J	CHIP R	100K	J	1/10W		R366,367			RK73GB2A471J	CHIP R	470	J	1/10W	
R226			RK73GB2A103J	CHIP R	10K	J	1/10W		R368			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R227			RK73GB2A104J	CHIP R	100K	J	1/10W		R369			RK73GB2A470J	CHIP R	47	J	1/10W	
R229			RK73GB2A471J	CHIP R	470	J	1/10W		R370			RK73GB2A302J	CHIP R	3.0K	J	1/10W	
R230,231			RK73GB2A101J	CHIP R	100	J	1/10W		R371			RN73GH1J182D	CHIP R	1.8K	D	1/16W	
R232			RK73GB2A102J	CHIP R	1.0K	J	1/10W		R372			RN73GH1J471D	CHIP R	470	D	1/16W	
R233			RK73GB2A104J	CHIP R	100K	J	1/10W		R374			RK73GB2A471J	CHIP R	470	J	1/10W	
R234,235			RK73GB2A101J	CHIP R	100	J	1/10W		R375			RK73GB2A101J	CHIP R	100	J	1/10W	
R236			RK73GB2A514J	CHIP R	510K	J	1/10W		R377			RK73GB2A103J	CHIP R	10K	J	1/10W	
R237-239			RK73GB2A102J	CHIP R	1.0K	J	1/10W		R380-383			RK73GB2A101J	CHIP R	100	J	1/10W	
R242-244			RK73GB2A473J	CHIP R	47K	J	1/10W		R385			RK73GB2A471J	CHIP R	470	J	1/10W	
R245			RK73GB2A123J	CHIP R	12K	J	1/10W		R386			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R246			RK73GB2A102J	CHIP R	1.0K	J	1/10W		R387			RN73GH1J473D	CHIP R	47K	D	1/16W	
R247			RK73GB2A473J	CHIP R	47K	J	1/10W		R388			RK73GB2A471J	CHIP R	470	J	1/10W	
R248,249			RK73GB2A123J	CHIP R	12K	J	1/10W		R389			RK73GB2A272J	CHIP R	2.7K	J	1/10W	
R250-253			RK73GB2A104J	CHIP R	100K	J	1/10W		R391			RN73GH1J203D	CHIP R	20K	D	1/16W	
R254			RK73GB2A123J	CHIP R	12K	J	1/10W		R392			RK73GB2A332J	CHIP R	3.3K	J	1/10W	
R258			RK73GB2A104J	CHIP R	100K	J	1/10W		R393			RK73GB2A104J	CHIP R	100K	J	1/10W	
R259			RK73GB2A153J	CHIP R	15K	J	1/10W		R394			RN73GH1J303D	CHIP R	30K	D	1/16W	
R260			RN73GH1J163D	CHIP R	16K	D	1/16W		R400			RK73GB2A103J	CHIP R	10K	J	1/10W	
R261			RN73GH1J392D	CHIP R	3.9K	D	1/16W		R401			RK73GB2A680J	CHIP R	68	J	1/10W	
R262			RN73GH1J333D	CHIP R	33K	D	1/16W		R402			RK73GB2A152J	CHIP R	1.5K	J	1/10W	
R263			RK73GB2A100J	CHIP R	10	J	1/10W		R403			RK73GB2A101J	CHIP R	100	J	1/10W	
R264			RK73GB2A104J	CHIP R	100K	J	1/10W		R404			RK73GB2A472J	CHIP R	4.7K	J	1/10W	
R265			RK73GB2A100J	CHIP R	10	J	1/10W		R405			RK73GB2A272J	CHIP R	2.7K	J	1/10W	
R266			RK73GB2A104J	CHIP R	100K	J	1/10W		R406			RK73GB2A101J	CHIP R	100	J	1/10W	
R267			RK73GB2A912J	CHIP R	9.1K	J	1/10W		R407			RK73GB2A272J	CHIP R	2.7K	J	1/10W	
R268			RK73GB2A112J	CHIP R	1.1K	J	1/10W		R408			RK73GB2A101J	CHIP R	100	J	1/10W	
R269			RK73GB2A105J	CHIP R	1.0M	J	1/10W		R409			RK73GB2A272J	CHIP R	2.7K	J	1/10W	
R270			RN73GH1J473D	CHIP R	47K	D	1/16W		R410,411			RK73GB2A104J	CHIP R	100K	J	1/10W	
R271			RN73GH1J392D	CHIP R	3.9K	D	1/16W		R412			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R272			RK73GB2A151J	CHIP R	150	J	1/10W		R413			RK73GB2A472J	CHIP R	4.7K	J	1/10W	
R273,274			RK73GB2A105J	CHIP R	1.0M	J	1/10W		R415-417			RK73GB2A201J	CHIP R	200	J	1/10W	
R275			RK73GB2A104J	CHIP R	100K	J	1/10W		R419			RK73GB2A101J	CHIP R	100	J	1/10W	
R276			RK73GB2A203J	CHIP R	20K	J	1/10W		R420,421			RK73GB2A153J	CHIP R	15K	J	1/10W	
R279,280			RK73GB2A101J	CHIP R	100	J	1/10W		R422,423			RK73GB2A561J	CHIP R	560	J	1/10W	
R281			RK73GB2A104J	CHIP R	100K	J	1/10W		R424			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R300			RK73GB2A471J	CHIP R	470	J	1/10W	E3E4X2	R427			RK73GB2A470J	CHIP R	47	J	1/10W	
R301			RK73GB2A103J	CHIP R	10K	J	1/10W	X2C1	R500			RK73GB2A302J	CHIP R	3.0K	J	1/10W	
R301			RK73GB2A103J	CHIP R	10K	J	1/10W		R501			RK73GB2A330J	CHIP R	33	J	1/10W	
R302			RK73GB2A152J	CHIP R	1.5K	J	1/10W		R502			RK73GB2A103J	CHIP R	10K	J	1/10W	
R303			RK73GB2A752J	CHIP R	7.5K	J	1/10W		R503			RK73GB2A820J	CHIP R	82	J	1/10W	
R304,305			RK73GB2A101J	CHIP R	100	J	1/10W		R504,505			RK73GB2A220J	CHIP R	22	J	1/10W	
R306			RK73GB2A103J	CHIP R	10K	J	1/10W		R506,507			RK73GB2A820J	CHIP R	82	J	1/10W	
R307			RK73GB2A682J	CHIP R	6.8K	J	1/10W		R508			RK73GB2A471J	CHIP R	470	J	1/10W	
R308			RK73GB2A105J	CHIP R	1.0M	J	1/10W		R509			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R309-312			RK73GB2A101J	CHIP R	100	J	1/10W		R520			RK73GB2A472J	CHIP R	4.7K	J	1/10W	

E3 : DDX6027    E4 : DDX6027Y (Europe)

K1 : DDX7017 (North America)

X2 : DDX7047 (Australia)    R1 : DDX7047 (Latin America)

C1 : DDX7067 (China)    M2 : DDX7037 (Other Areas)

△ Indicates safety critical components.

## PARTS LIST

### VIDEO CONTROL UNIT (X14-957/958x-xx)

Ref. No.	A d d	N e w	Parts No.	Description			Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description			Desti- nation
R522-528			RK73GB2A103J	CHIP R	10K	J	1/10W	R725			RK73GB2A103J	CHIP R	10K	J	1/10W
R529			RK73GB2A472J	CHIP R	4.7K	J	1/10W	R753			RK73GB2A151J	CHIP R	150	J	1/10W
R540,541			RK73GB2A330J	CHIP R	33	J	1/10W	R770			RK73GB2A103J	CHIP R	10K	J	1/10W
R542			RK73GB2A105J	CHIP R	1.0M	J	1/10W	R771			RK73GB2A222J	CHIP R	2.2K	J	1/10W
R544			RK73GB2A102J	CHIP R	1.0K	J	1/10W	R772-774			RK73GB2A472J	CHIP R	4.7K	J	1/10W
R560			RK73GB2A101J	CHIP R	100	J	1/10W	R776			RK73GB2A472J	CHIP R	4.7K	J	1/10W
R601-603			RK73GB2A472J	CHIP R	4.7K	J	1/10W	R777			RK73GB2A102J	CHIP R	1.0K	J	1/10W
R604			RK73GB2A470J	CHIP R	47	J	1/10W	R801-804			RK73EB2E102J	CHIP R	1.0K	J	1/4W
R605-610			RK73GB2A101J	CHIP R	100	J	1/10W	R805-810			RK73EB2E101J	CHIP R	100	J	1/4W
R611			RK73GB2A102J	CHIP R	1.0K	J	1/10W	R850-856			RK73GB2A101J	CHIP R	100	J	1/10W
R612,613			RK73GB2A101J	CHIP R	100	J	1/10W	R859-866			RK73GB2A101J	CHIP R	100	J	1/10W
R614			RK73GB2A330J	CHIP R	33	J	1/10W	R922			RK73GB2A102J	CHIP R	1.0K	J	1/10W
R615-617			RK73GB2A472J	CHIP R	4.7K	J	1/10W	R924			RK73GB2A103J	CHIP R	10K	J	1/10W
R618,619			RK73GB2A220J	CHIP R	22	J	1/10W	R925			RN73GH1J123D	CHIP R	12K	D	1/16W
R620-622			RK73GB2A472J	CHIP R	4.7K	J	1/10W	R926			RN73GH1J152D	CHIP R	1.5K	D	1/16W
R625-627			RK73GB2A472J	CHIP R	4.7K	J	1/10W	R927			RN73GH1J243D	CHIP R	24K	D	1/16W
R629			RK73GB2A101J	CHIP R	100	J	1/10W	R964			RK73EB2E151J	CHIP R	150	J	1/4W
R651-654			RK73GB2A102J	CHIP R	1.0K	J	1/10W	R966			RK73EB2E150J	CHIP R	15	J	1/4W
R655			RK73EB2E750J	CHIP R	75	J	1/4W	VR361			R32-0327-05	SEMI FIXED VARIABLE RESISTOR			
R656			RK73GB2A511J	CHIP R	510	J	1/10W	W100,101			R92-1252-05	CHIP R	0 OHM	J	1/16W
R657			RK73GB2A152J	CHIP R	1.5K	J	1/10W	W103,104			R92-1252-05	CHIP R	0 OHM	J	1/16W
R658,659			RK73GB2A102J	CHIP R	1.0K	J	1/10W	W111-117			R92-1252-05	CHIP R	0 OHM	J	1/16W
R660			RK73GB2A103J	CHIP R	10K	J	1/10W	W121,122			R92-1252-05	CHIP R	0 OHM	J	1/16W
R661,662			RK73GB2A472J	CHIP R	4.7K	J	1/10W	W183			R92-1252-05	CHIP R	0 OHM	J	1/16W
R663,664			RK73GB2A101J	CHIP R	100	J	1/10W	W201-203			R92-1252-05	CHIP R	0 OHM	J	1/16W
R665-668			RN73GH1J750D	CHIP R	75	D	1/16W	W205			R92-1252-05	CHIP R	0 OHM	J	1/16W
R669			RN73GH1J151D	CHIP R	150	D	1/16W	W301			R92-1252-05	CHIP R	0 OHM	J	1/16W
R670			RK73GB2A103J	CHIP R	10K	J	1/10W	W304			R92-1252-05	CHIP R	0 OHM	J	1/16W
R671,672			RK73GB2A104J	CHIP R	100K	J	1/10W	W306-308			R92-1252-05	CHIP R	0 OHM	J	1/16W
R673			RN73GH1J151D	CHIP R	150	D	1/16W	W311-313			R92-1252-05	CHIP R	0 OHM	J	1/16W
R675			RK73GB2A103J	CHIP R	10K	J	1/10W	W360			R92-1252-05	CHIP R	0 OHM	J	1/16W
R676			RK73GB2A102J	CHIP R	1.0K	J	1/10W	W365			R92-1252-05	CHIP R	0 OHM	J	1/16W
R678			RK73GB2A472J	CHIP R	4.7K	J	1/10W	W401			R92-1252-05	CHIP R	0 OHM	J	1/16W
R679			RK73GB2A102J	CHIP R	1.0K	J	1/10W	W403			R92-1252-05	CHIP R	0 OHM	J	1/16W
R682			RK73GB2A472J	CHIP R	4.7K	J	1/10W	W405			R92-1252-05	CHIP R	0 OHM	J	1/16W
R683-687			RK73GB2A102J	CHIP R	1.0K	J	1/10W	W408-415			R92-1252-05	CHIP R	0 OHM	J	1/16W
R701,702			RK73GB2A472J	CHIP R	4.7K	J	1/10W	W501			R92-1252-05	CHIP R	0 OHM	J	1/16W
R703			RK73GB2A302J	CHIP R	3.0K	J	1/10W	W522			R92-1252-05	CHIP R	0 OHM	J	1/16W
R704,705			RK73GB2A201J	CHIP R	200	J	1/10W	W581			R92-1252-05	CHIP R	0 OHM	J	1/16W
R706			RK73GB2A302J	CHIP R	3.0K	J	1/10W	W601			R92-1252-05	CHIP R	0 OHM	J	1/16W
R707			RK73GB2A471J	CHIP R	470	J	1/10W	W604			R92-1252-05	CHIP R	0 OHM	J	1/16W
R708			RK73GB2A182J	CHIP R	1.8K	J	1/10W	W606-609			R92-1252-05	CHIP R	0 OHM	J	1/16W
R709			RK73GB2A100J	CHIP R	10	J	1/10W	W650			R92-1252-05	CHIP R	0 OHM	J	1/16W
R710,711			RK73GB2A472J	CHIP R	4.7K	J	1/10W	W652			R92-1252-05	CHIP R	0 OHM	J	1/16W
R712			RK73GB2A302J	CHIP R	3.0K	J	1/10W	W654			R92-1252-05	CHIP R	0 OHM	J	1/16W
R713,714			RK73GB2A201J	CHIP R	200	J	1/10W	W658			R92-1252-05	CHIP R	0 OHM	J	1/16W
R715			RK73GB2A302J	CHIP R	3.0K	J	1/10W	W660			R92-1252-05	CHIP R	0 OHM	J	1/16W
R716			RK73GB2A471J	CHIP R	470	J	1/10W	W662,663			R92-1252-05	CHIP R	0 OHM	J	1/16W
R717			RK73GB2A182J	CHIP R	1.8K	J	1/10W	W701			R92-1252-05	CHIP R	0 OHM	J	1/16W
R718			RK73GB2A100J	CHIP R	10	J	1/10W	W750			R92-1252-05	CHIP R	0 OHM	J	1/16W
R719			RK73GB2A682J	CHIP R	6.8K	J	1/10W	W770			R92-1252-05	CHIP R	0 OHM	J	1/16W
R720			RK73GB2A222J	CHIP R	2.2K	J	1/10W	W772-776			R92-1252-05	CHIP R	0 OHM	J	1/16W
R721			RK73GB2A392J	CHIP R	3.9K	J	1/10W	W800			RK73EB2E000J	CHIP R	0.0	J	1/4W
R722			RK73GB2A102J	CHIP R	1.0K	J	1/10W	W851-853			R92-1252-05	CHIP R	0 OHM	J	1/16W
R723,724			RK73GB2A223J	CHIP R	22K	J	1/10W	W857,858			RK73FB2B000J	CHIP R	0.0	J	1/8W

E3 : DDX6027 E4 : DDX6027Y (Europe)

△ Indicates safety critical components.

K1 : DDX7017 (North America)

X2 : DDX7047 (Australia) R1 : DDX7047 (Latin America)

C1 : DDX7067 (China) M2 : DDX7037 (Other Areas)

## PARTS LIST

## VIDEO CONTROL UNIT (X14-957/958x-xx)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
W859-863			R92-1252-05	CHIP R 0 OHM J 1/16W		IC403			TC7S02FU-F	MOS-IC	
W867			R92-1252-05	CHIP R 0 OHM J 1/16W		IC404			TC7SH04FU-F	MOS-IC	
W869,870			R92-1252-05	CHIP R 0 OHM J 1/16W		IC405			TC7W08FU-F	MOS-IC	
W872-874			R92-1252-05	CHIP R 0 OHM J 1/16W		IC406			TC7W32FU-F	MOS-IC	
W881,882			RK73EB2E000J	CHIP R 0.0 J 1/4W		IC500			PQ070XH02ZPH	ANALOGUE IC	
W884-886			RK73EB2E000J	CHIP R 0.0 J 1/4W		IC520			M29LV160T72U5	ROM IC	
W887,888			R92-1252-05	CHIP R 0 OHM J 1/16W		IC540,541			TC7SHU04FU-F	MOS-IC	
W889			RK73EB2E000J	CHIP R 0.0 J 1/4W		IC560			K4S281632FUP75	DRAM IC	
W893			R92-1252-05	CHIP R 0 OHM J 1/16W		IC601			ES6218SF	MOS-IC	
D100			1SR154-400	DIODE		IC650			MM1567AJBE-E	ANALOGUE IC	
D104			DAN202U	DIODE		IC651			UPC2905ATAZ	ANALOGUE IC	
D105			UDZS6.8B	ZENER DIODE		IC652			ADV7170KSUZ	MOS-IC	
D106			DAN202U	DIODE		IC654			MM1508XNRE-E	ANALOGUE IC	
D107			UDZS6.2B	ZENER DIODE		IC701			NJM4580V-ZB	ANALOGUE IC	
D108-111			EC31QS04AG	DIODE		IC702			TA78L05F-F	ANALOGUE IC	
D113			EC31QS04AG	DIODE		IC703			AK4382AVT	ANALOGUE IC	
D114,115			SB05-05CP-E	DIODE		IC750			TC7SET04FU-F	MOS-IC	
D116			MA2S784-F	DIODE		IC770			M43212VN18R01	MOS-IC	
D180,181			DAN202U	DIODE		IC850			TC7SH00FU-F	MOS-IC	
D300			DAN202U	DIODE		Q100			DTC144EUA	DIGITAL TRANSISTOR	
D501,502			DA204U	DIODE		Q101			2SC4081	TRANSISTOR	
D701			DAP202U	DIODE		Q102			DTC144EUA	DIGITAL TRANSISTOR	
D702			DA204U	DIODE		Q103			2SA1576A	TRANSISTOR	
D704,705			STZ6.2N	ZENER DIODE		Q104			2SC4081	TRANSISTOR	
D850-854			AVRM1608120M6A	VARISTOR		Q105			2SA1576A	TRANSISTOR	
D857-860			AVRM1608120M6A	VARISTOR		Q106			HAT1038R-E	FET	
D861			UDZS6.2B	ZENER DIODE		Q107			2SC4081	TRANSISTOR	
D862			DA204U	DIODE		Q108			DTA124EUA	DIGITAL TRANSISTOR	
D924			AVRM1608120M6A	VARISTOR		Q109-111			HAT1024R-E	FET	
D962			DA204U	DIODE		Q112			DTC144EUA	DIGITAL TRANSISTOR	
D963			AVRM1608270MAA	VARISTOR		Q113			2SA1576A	TRANSISTOR	
IC100-102			FA7707E-H1	ANALOGUE IC		Q114			2SC4081	TRANSISTOR	
IC103			TA58L05F	ANALOGUE IC		Q115			2SB1189	TRANSISTOR	
IC104			PQ1X331M2ZPH	ANALOGUE IC		Q116			2SC4081	TRANSISTOR	
IC108			SI-3012KM	ANALOGUE IC		Q120			2SA1576A	TRANSISTOR	
IC200			BR24L08FV-W	ROM IC		Q121			DTC144EUA	DIGITAL TRANSISTOR	
IC203			LB1836M-TLM-E	ANALOGUE IC		Q122			2SA1576A	TRANSISTOR	
IC204			703265YGY501A	MICROCONTROLLER IC		Q123-125			2SC4081	TRANSISTOR	
IC205			TC7SH08FU-F	MOS-IC		Q126			DTA114TUA	DIGITAL TRANSISTOR	
IC206			S-80830CNNB-G	MOS-IC		Q127			DTA114EUA	DIGITAL TRANSISTOR	
IC207			TC74V/HCT08AFT	MOS-IC		Q128			DTA144EUA	DIGITAL TRANSISTOR	
IC301			TDA4665T-F	ANALOGUE IC		Q129			IMX9	TRANSISTOR	
IC301			TDA4665T-F	ANALOGUE IC		Q170			DTA144EUA	DIGITAL TRANSISTOR	
IC303			AN2546FH-AV	ANALOGUE IC		Q172			DTA144EUA	DIGITAL TRANSISTOR	
IC304			MM1389XFBE-E	ANALOGUE IC		Q175			DTA144EUA	DIGITAL TRANSISTOR	
IC306			TC7SH04FU-F	MOS-IC		Q180,181			2SC4081	TRANSISTOR	
IC361			TC7W00FU-F	MOS-IC		Q182			2SA1576A	TRANSISTOR	
IC362			NJW1303V-ZB	ANALOGUE IC		Q183			DTC124EUA	DIGITAL TRANSISTOR	
IC363,364			TC7W34FU-F	MOS-IC		Q184			DTC143EUA	DIGITAL TRANSISTOR	
IC365			TC7WH123FU-F	MOS-IC		Q202			DTC144EUA	DIGITAL TRANSISTOR	
IC366			TC7SH04FU-F	MOS-IC		Q203			DTB123YK	DIGITAL TRANSISTOR	
IC400			LC74735NW9817E	MOS-IC		Q204			DTC144EUA	DIGITAL TRANSISTOR	
IC401			MB29LV8T9T0U1	ROM IC		Q205			DTB123YK	DIGITAL TRANSISTOR	
IC402			TC74LCX74FT	MOS-IC		Q206			DTA144EUA	DIGITAL TRANSISTOR	
						Q207			DTC144EUA	DIGITAL TRANSISTOR	

E3 : DDX6027    E4 : DDX6027Y (Europe)

K1 : DDX7017 (North America)

X2 : DDX7047 (Australia)    R1 : DDX7047 (Latin America)

C1 : DDX7067 (China)    M2 : DDX7037 (Other Areas)

△ Indicates safety critical components.

## PARTS LIST

### VIDEO CONTROL UNIT (X14-957/958x-xx)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
Q210			2SA1576A	TRANSISTOR	
Q211			2SC4081	TRANSISTOR	
Q212			2SA1576A	TRANSISTOR	
Q213			2SC4081	TRANSISTOR	
Q214			DTA114TUA	DIGITAL TRANSISTOR	
Q215			2SC4081	TRANSISTOR	
Q216			DTA114TUA	DIGITAL TRANSISTOR	
Q217			2SC4081	TRANSISTOR	
Q218			DTA114TUA	DIGITAL TRANSISTOR	
Q219			DTC114TUA	DIGITAL TRANSISTOR	
Q300			2SA1576A	TRANSISTOR	E3E4M2
Q300			2SA1576A	TRANSISTOR	X2C1
Q301			DTC114TUA	DIGITAL TRANSISTOR	E3E4
Q360			2SC4081	TRANSISTOR	
Q361,362			2SA1576A	TRANSISTOR	
Q363			DTA114EUA	DIGITAL TRANSISTOR	
Q364			DTC144EUA	DIGITAL TRANSISTOR	
Q390			2SC4081	TRANSISTOR	
Q391			2SA1576A	TRANSISTOR	
Q400-402			2SA1576A	TRANSISTOR	
Q404,405			2SC4081	TRANSISTOR	
Q650			DTA114TUA	DIGITAL TRANSISTOR	
Q651,652			DTC144EUA	DIGITAL TRANSISTOR	
Q653			DTA114TUA	DIGITAL TRANSISTOR	
Q701-703			2SC4081	TRANSISTOR	
Q704			DTC114TUA	DIGITAL TRANSISTOR	
Q705,706			DTA114TUA	DIGITAL TRANSISTOR	

### SWITCH UNIT (X16-2380-00): IN DVD MECHA.

CN1		E41-2036-05	FLAT CABLE CONNECTOR	
S1,2		S68-0863-05	PUSH SWITCH	

### ELECTRIC UNIT (X34-384/385x-xx)

C5		C90-6744-05	ELECTRO	3900UF	16WV	
C6		CK73GB1H104K	CHIP C	0.10UF	K	
C7		CK73FB1C105K	CHIP C	1.0UF	K	
C8		CD04BA1H3R3M	ELECTRO	3.3UF	50WV	
C9,10		CK73GB1H103K	CHIP C	0.010UF	K	
C51		CK73GB1H473K	CHIP C	0.047UF	K	
C52		CD04AS1V100M	ELECTRO	10UF	35WV	
C55		CD04BJ1E221M	ELECTRO	220UF	25WV	
C56		CD04BJ1A101M	ELECTRO	100UF	10WV	
C58		CD04AS1C220M	ELECTRO	22UF	16WV	
C59	*	CD04BG1C101M	ELECTRO	100UF	16WV	
C60-62		CK73EB1E225K	CHIP C	2.2UF	K	
C63		CD04BA1C220M	ELECTRO	22UF	16WV	
C64		CK73EB1E225K	CHIP C	2.2UF	K	
C65		CK73FB1C105K	CHIP C	1.0UF	K	
C67		CD04AY1A221M	ELECTRO	220UF	10WV	
C69		CK73FB1C105K	CHIP C	1.0UF	K	
C70		CD04AY1A221M	ELECTRO	220UF	10WV	
C71		CK73GB1H223K	CHIP C	0.022UF	K	
C72		CK73GB1H103K	CHIP C	0.010UF	K	
C73,74		CK73EB1E225K	CHIP C	2.2UF	K	
C101		CK73GB1A105K	CHIP C	1.0UF	K	

E3 : DDX6027 E4 : DDX6027Y (Europe)

K1 : DDX7017 (North America)

X2 : DDX7047 (Australia) R1 : DDX7047 (Latin America)

C1 : DDX7067 (China) M2 : DDX7037 (Other Areas)

△ Indicates safety critical components.

Ref. No.	A d d	N e w	Parts No.	Description			Desti- nation
C103			CK73GB1A105K	CHIP C	1.0UF	K	
C104			CD04AS1C101M	ELECTRO	100UF	16WV	
C108-112			C90-6742-05	NP-ELECT	4.7UF	16WV	
C113			CK73GB1H103K	CHIP C	0.010UF	K	
C150			CD04AS1C470M	ELECTRO	47UF	16WV	
C151,152			CK73GB1H152K	CHIP C	1500PF	K	
C153			CD04AS1V100M	ELECTRO	10UF	35WV	
C154,155			CK73FB1C105K	CHIP C	1.0UF	K	
C162,163			CD04AS1V100M	ELECTRO	10UF	35WV	
C164			CK73GB1H103K	CHIP C	0.010UF	K	
C165			CD04AS1V100M	ELECTRO	10UF	35WV	
C166			CK73GB1H104K	CHIP C	0.10UF	K	
C167			CK73GB1H103K	CHIP C	0.010UF	K	
C168			CD04AT1H010M	ELECTRO	1UF	50WV	
C169			CD04AS1H010M	ELECTRO	1UF	50WV	
C170			CD04AS1C470M	ELECTRO	47UF	16WV	
C171			CD04AS1H010M	ELECTRO	1UF	50WV	
C172			CK73GB1H102K	CHIP C	1000PF	K	
C173			CD04AS1H4R7M	ELECTRO	4.7UF	50WV	
C174			CK73FB1E474K	CHIP C	0.47UF	K	
C175			CK73GB1H102K	CHIP C	1000PF	K	
C176			CK73FB1E474K	CHIP C	0.47UF	K	
C177			CD04AS1C101M	ELECTRO	100UF	16WV	
C178,179			CD04AS1H3R3M	ELECTRO	3.3UF	50WV	
C180,181			CK73FB1A225K	CHIP C	2.2UF	K	
C182-185			CC73GCH1H101J	CHIP C	100PF	J	
C186			CK73FB1C105K	CHIP C	1.0UF	K	
C187,188			CD04AS1H3R3M	ELECTRO	3.3UF	50WV	
C200			CD04AS1C220M	ELECTRO	22UF	16WV	
C201			CD04AS1V100M	ELECTRO	10UF	35WV	
C202			CK73GB1H103K	CHIP C	0.010UF	K	
C203,204			CD04AS1V100M	ELECTRO	10UF	35WV	
C205			CK73GB1H102K	CHIP C	1000PF	K	
C206			CD04AS1V100M	ELECTRO	10UF	35WV	
C207			CK73GB1H103K	CHIP C	0.010UF	K	
C208			CK73GB1H102K	CHIP C	1000PF	K	
C209-213			CD04AS1V100M	ELECTRO	10UF	35WV	
C214			CK73GB1H103K	CHIP C	0.010UF	K	
C215,216			CK73GB1H102K	CHIP C	1000PF	K	
C217-219			CD04AS1V100M	ELECTRO	10UF	35WV	
C220			CK73GB1H103K	CHIP C	0.010UF	K	
C221			CK73GB1H102K	CHIP C	1000PF	K	
C222-224			CD04AS1V100M	ELECTRO	10UF	35WV	
C225			CK73GB1H103K	CHIP C	0.010UF	K	
C226			CK73GB1H102K	CHIP C	1000PF	K	
C227-229			CD04AS1V100M	ELECTRO	10UF	35WV	
C230			CK73GB1H103K	CHIP C	0.010UF	K	
C231			CD04AS1C220M	ELECTRO	22UF	16WV	
C233			CD04AS1V100M	ELECTRO	10UF	35WV	
C234			CK73GB1H222K	CHIP C	2200PF	K	
C235,236			CK73GB1H102K	CHIP C	1000PF	K	
C237			CK73GB1H222K	CHIP C	2200PF	K	
C238			CD04AS1V100M	ELECTRO	10UF	35WV	
C239			CD04AS0J101M	ELECTRO	100UF	6.3WV	
C240			CD04AS1H4R7M	ELECTRO	4.7UF	50WV	K1

## PARTS LIST

## ELECTRIC UNIT (X34-384/385x-xx)

Ref. No.	A d d	N e w	Parts No.	Description			Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description			Desti- nation
C241			CD04AS1C220M	ELECTRO	22UF	16WV	K1	C432			CD04AS0J470M	ELECTRO	47UF	6.3WV	
C242			CK73GB1H103K	CHIP C	0.010UF	K	K1	C433			CK73GB1H104K	CHIP C	0.10UF	K	
C243			CD04AS1H4R7M	ELECTRO	4.7UF	50WV	K1	C434-436			CK73GB0J225K	CHIP C	2.2UF	K	
C244			CD04AS0J101M	ELECTRO	100UF	6.3WV		C437			CD04BJ1C471M	ELECTRO	470UF	16WV	
C245			CD04AS1H4R7M	ELECTRO	4.7UF	50WV		C438			CK73GB1H104K	CHIP C	0.10UF	K	
C246			CD04AS1C220M	ELECTRO	22UF	16WV		C442			CD04AS1V100M	ELECTRO	10UF	35WV	
C247			CK73GB1H103K	CHIP C	0.010UF	K		C448,449			CK73GB1H103K	CHIP C	0.010UF	K	
C248			CD04AS1H4R7M	ELECTRO	4.7UF	50WV		C450-452			CD04AY1H220M	ELECTRO	22UF	50WV	
C251,252			CC73GCH1H100D	CHIP C	10PF	D	E4M2	C454,455			CK73GB1A105K	CHIP C	1.0UF	K	
C251,252			CC73GCH1H100D	CHIP C	10PF	D	K1R1E3	C457,458			CK73GB1A105K	CHIP C	1.0UF	K	K1
C255			CE32BM1C100M	CHIP EL	10UF	16WV	E4M2	C458			CK73GB1A105K	CHIP C	1.0UF	K	M2X2C1
C255			CE32BM1C100M	CHIP EL	10UF	16WV	K1R1E3	C458			CK73GB1A105K	CHIP C	1.0UF	K	R1E3E4
C256			CC73GCH1H331J	CHIP C	330PF	J	E4M2	C461-463			CK73GB1H104K	CHIP C	0.10UF	K	K1
C256			CC73GCH1H331J	CHIP C	330PF	J	K1R1E3	C462,463			CK73GB1H104K	CHIP C	0.10UF	K	M2X2C1
C257			CE32BM1C100M	CHIP EL	10UF	16WV	E4M2	C462,463			CK73GB1H104K	CHIP C	0.10UF	K	R1E3E4
C257			CE32BM1C100M	CHIP EL	10UF	16WV	K1R1E3	C500			CK73GB1H103K	CHIP C	0.010UF	K	
C258			CK73GB1H103K	CHIP C	0.010UF	K	E4M2	C501,502			CD04AS1H4R7M	ELECTRO	4.7UF	50WV	
C258			CK73GB1H103K	CHIP C	0.010UF	K	K1R1E3	C503			CD04AS0J101M	ELECTRO	100UF	6.3WV	
C267-270			CK73GB1H103K	CHIP C	0.010UF	K		C504			CD04AS1C220M	ELECTRO	22UF	16WV	
C300			CK73GB1H103K	CHIP C	0.010UF	K		C505			CD04AS1V100M	ELECTRO	10UF	35WV	
C301,302			CK73GB1H104K	CHIP C	0.10UF	K		C506,507			CK73GB1H104K	CHIP C	0.10UF	K	
C303			CK73GB1H103K	CHIP C	0.010UF	K		C508			CD04AS1H4R7M	ELECTRO	4.7UF	50WV	
C304			CK73GB1A105K	CHIP C	1.0UF	K		C509			CD04AS0J470M	ELECTRO	47UF	6.3WV	
C308			CD04BJ0J331M	ELECTRO	330UF	6.3WV		C510,511			CD04AS1H4R7M	ELECTRO	4.7UF	50WV	
C309			CK73GB1H103K	CHIP C	0.010UF	K		C512			CD04AS0J470M	ELECTRO	47UF	6.3WV	
C310			CK73GB1H102K	CHIP C	1000PF	K		C513			CD04AS1H4R7M	ELECTRO	4.7UF	50WV	
C400,401			CK73GB1A105K	CHIP C	1.0UF	K	E3E4	C514			CD04AS0J470M	ELECTRO	47UF	6.3WV	
C401			CK73GB1A105K	CHIP C	1.0UF	K	K1R1M2	C515,516			CD04AS1H4R7M	ELECTRO	4.7UF	50WV	
C401			CK73GB1A105K	CHIP C	1.0UF	K	X2C1	C600			CK73GB1H102K	CHIP C	1000PF	K	
C403			CD04AS0J470M	ELECTRO	47UF	6.3WV		C803			CK73GB1H103K	CHIP C	0.010UF	K	M2X2C1
C404			CK73GB1H104K	CHIP C	0.10UF	K		C803			CK73GB1H103K	CHIP C	0.010UF	K	
C405,406			CK73GB1A105K	CHIP C	1.0UF	K	E3E4	C803,804			CK73GB1H103K	CHIP C	0.010UF	K	R1E3E4
C406			CK73GB1A105K	CHIP C	1.0UF	K	K1R1M2	C808			CK73GB1H103K	CHIP C	0.010UF	K	K1
C406			CK73GB1A105K	CHIP C	1.0UF	K	X2C1	C809			CK73GB1H222K	CHIP C	2200PF	K	
C408			CD04AS0J470M	ELECTRO	47UF	6.3WV		C850			CK73GB1H222K	CHIP C	2200PF	K	
C409			CK73GB1H104K	CHIP C	0.10UF	K		C851			CK73GB1H472K	CHIP C	4700PF	K	
C410,411			CK73GB1A105K	CHIP C	1.0UF	K	E3E4	C852			CK73FB1H152K	CHIP C	1500PF	K	
C411			CK73GB1A105K	CHIP C	1.0UF	K	K1R1M2	CN2							X2
C411			CK73GB1A105K	CHIP C	1.0UF	K	X2C1	CN8							
C413			CD04AS0J470M	ELECTRO	47UF	6.3WV		CN9,10							
C414			CK73GB1H104K	CHIP C	0.10UF	K		CN11,12							
C415			CK73GB1H103K	CHIP C	0.010UF	K		CN13							
C416			CK73GB1H561K	CHIP C	560PF	K		CN14							
C417			CK73GB1A105K	CHIP C	1.0UF	K		CN15							
C418			CK73GB1H561K	CHIP C	560PF	K		CN250,251							
C419			CK73GB1H103K	CHIP C	0.010UF	K		CN252,253							
C420,421			CK73GB1H104K	CHIP C	0.10UF	K	J1	E41-2521-05							
C422			CK73GB1H103K	CHIP C	0.010UF	K		E41-2522-05							
C423			CD04AS1C220M	ELECTRO	22UF	16WV		E41-2383-05							
C424			CD04AS1V100M	ELECTRO	10UF	35WV		E40-9423-05							
C425			CK73GB1A105K	CHIP C	1.0UF	K	M2X2C1	E58-0991-05							
C425			CK73GB1A105K	CHIP C	1.0UF	K	R1E3E4	E58-0899-05							
C425,426			CK73GB1A105K	CHIP C	1.0UF	K		E56-0865-05							
C428			CK73GB1H104K	CHIP C	0.10UF	K	K1	E58-1034-05							
C429-431			CK73GB1A105K	CHIP C	1.0UF	K	3D	E56-0864-05							
							W253	E30-6492-05							
							WH1	E39-0778-05							

E3 : DDX6027    E4 : DDX6027Y (Europe)

K1 : DDX7017 (North America)

X2 : DDX7047 (Australia)    R1 : DDX7047 (Latin America)

C1 : DDX7067 (China)    M2 : DDX7037 (Other Areas)

△ Indicates safety critical components.

## PARTS LIST

### ELECTRIC UNIT (X34-384/385x-xx)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
L1			L33-1063-25	CHOKE COIL		R72			RK73GB2A752J	CHIP R 7.5K	J 1/10W
L50			L41-2205-33	SMALL FIXED INDUCTOR (22U)		R73			RK73GB2A274J	CHIP R 270K	J 1/10W
L150			L41-4795-33	SMALL FIXED INDUCTOR (4.7U)		R74			RK73GB2A563J	CHIP R 56K	J 1/10W
L250			L41-4795-33	SMALL FIXED INDUCTOR (4.7U)	E4M2	R75			RK73GB2A470J	CHIP R 47	J 1/10W
L250			L41-4795-33	SMALL FIXED INDUCTOR (4.7U)	K1R1E3	R76			RK73GB2A103J	CHIP R 10K	J 1/10W
L252			L41-4795-33	SMALL FIXED INDUCTOR (4.7U)		R77,78			RK73GB2A913J	CHIP R 91K	J 1/10W
L254			L41-4795-33	SMALL FIXED INDUCTOR (4.7U)		R79			RK73GB2A750J	CHIP R 75	J 1/10W
L255			L33-1977-05	CHOKE COIL		R80			RK73GB2A101J	CHIP R 100	J 1/10W
L256			L41-4795-33	SMALL FIXED INDUCTOR (4.7U)		R100			RK73GB2A103J	CHIP R 10K	J 1/10W
L300			L41-1005-33	SMALL FIXED INDUCTOR (10U)		R101			RK73GB2A432J	CHIP R 4.3K	J 1/10W
L400-402			L41-1005-33	SMALL FIXED INDUCTOR (10U)		R102			RK73GB2A103J	CHIP R 10K	J 1/10W
L800-802			L92-0373-05	CHIP FERRITE		R103			RK73GB2A333J	CHIP R 33K	J 1/10W
X250			L77-2002-05	CRYSTAL RESONATOR	E4M2	R104,105			RK73GB2A103J	CHIP R 10K	J 1/10W
X250			L77-2002-05	CRYSTAL RESONATOR	K1R1E3	R106			RK73GB2A223J	CHIP R 22K	J 1/10W
X300			L78-0892-05	RESONATOR (19M)		R107			RK73GB2A221J	CHIP R 220	J 1/10W
M	2C		N86-2606-48	BINDING HEAD TAPITITE SCREW		R108			RK73GB2A182J	CHIP R 1.8K	J 1/10W
R6			RK73EB2E102J	CHIP R 1.0K	J 1/4W	R110			RK73GB2A103J	CHIP R 10K	J 1/10W
R7			RK73EB2E103J	CHIP R 10K	J 1/4W	R111			RK73GB2A390J	CHIP R 39	J 1/10W
R10,11			RK73PB2H102J	CHIP R 1.0K	J 1/2W	R113			RK73GB2A104J	CHIP R 100K	J 1/10W
R12			RK73GB2A223J	CHIP R 22K	J 1/10W	R114-117			RK73GB2A471J	CHIP R 470	J 1/10W
R13,14			RK73FB2B472J	CHIP R 4.7K	J 1/8W	R118			RK73GB2A102J	CHIP R 1.0K	J 1/10W
R15			RK73SB3A561J	CHIP R 560	J 1W	R120			RK73GB2A223J	CHIP R 22K	J 1/10W
R15			RK73SB3A561J	CHIP R 560	J 1W	R121			RK73GB2A431J	CHIP R 430	J 1/10W
R16,17			RK73GB2A223J	CHIP R 22K	J 1/10W	R122			RK73GB2A100J	CHIP R 10	J 1/10W
R16,17			RK73GB2A223J	CHIP R 22K	J 1/10W	R150			RK73EB2E2R2J	CHIP R 2.2	J 1/4W
R17			RK73GB2A223J	CHIP R 22K	J 1/10W	R151,152			RK73GB2A102J	CHIP R 1.0K	J 1/10W
R18			RK73GB2A103J	CHIP R 10K	J 1/10W	R159			RK73GB2A391J	CHIP R 390	J 1/10W
R19			RK73GB2A104J	CHIP R 100K	J 1/10W	R160			RK73GB2A242J	CHIP R 2.4K	J 1/10W
R20			RK73GB2A183J	CHIP R 18K	J 1/10W	R162			RK73GH2A512D	CHIP R 5.1K	D 1/10W
R21			RK73FB2B561J	CHIP R 560	J 1/8W	R163			RK73GH2A472D	CHIP R 4.7K	D 1/10W
R22			RK73GB2A473J	CHIP R 47K	J 1/10W	R164			RK73GB2A562J	CHIP R 5.6K	J 1/10W
R24			RK73GB2A683J	CHIP R 68K	J 1/10W	R165			RK73GB2A103J	CHIP R 10K	J 1/10W
R25			RK73GB2A393J	CHIP R 39K	J 1/10W	R166			RK73GB2A101J	CHIP R 100	J 1/10W
R26			RK73GB2A104J	CHIP R 100K	J 1/10W	R167,168			RK73GB2A102J	CHIP R 1.0K	J 1/10W
R27			RK73EB2E101J	CHIP R 100	J 1/4W	R169			RK73FB2B152J	CHIP R 1.5K	J 1/8W
R28			RK73GB2A104J	CHIP R 100K	J 1/10W	R170			RK73GB2A104J	CHIP R 100K	J 1/10W
R29			RK73GB2A103J	CHIP R 10K	J 1/10W	R171			RK73FB2B4R7J	CHIP R 4.7	J 1/8W
R30			RK73GB2A474J	CHIP R 470K	J 1/10W	R172			RK73GB2A332J	CHIP R 3.3K	J 1/10W
R50			RK73FB2B182J	CHIP R 1.8K	J 1/8W	R173,174			RK73GB2A101J	CHIP R 100	J 1/10W
R51			RK73GB2A104J	CHIP R 100K	J 1/10W	R176			RK73GB2A100J	CHIP R 10	J 1/10W
R53			RK73GB2A101J	CHIP R 100	J 1/10W	R177-180			RK73GB2A101J	CHIP R 100	J 1/10W
R55			RK73FB2B203J	CHIP R 20K	J 1/8W	R181,182			RK73GB2A103J	CHIP R 10K	J 1/10W
R56			RK73FB2B221J	CHIP R 220	J 1/8W	R184			RK73FB2B1R0J	CHIP R 1.0	J 1/8W
R58			RK73FB2B221J	CHIP R 220	J 1/8W	R200			RK73FB2B203J	CHIP R 20K	J 1/8W
R59			RK73FB2B272J	CHIP R 2.7K	J 1/8W	R201			RK73FB2B103J	CHIP R 10K	J 1/8W
R60			RK73GB2A223J	CHIP R 22K	J 1/10W	R202			RK73EB2E820J	CHIP R 82	J 1/4W
R61			RK73GB2A153J	CHIP R 15K	J 1/10W	R203			RK73GB2A361J	CHIP R 360	J 1/10W
R63			RK73GH2A243D	CHIP R 24K	D 1/10W	R204			RK73GB2A104J	CHIP R 100K	J 1/10W
R64			RK73GH2A432D	CHIP R 4.3K	D 1/10W	R205			RK73GB2A223J	CHIP R 22K	J 1/10W
R67			RK73GB2A272J	CHIP R 2.7K	J 1/10W	R206			RK73EB2E820J	CHIP R 82	J 1/4W
R68			RK73GB2A153J	CHIP R 15K	J 1/10W	R207			RK73FB2B203J	CHIP R 20K	J 1/8W
R69			RK73GB2A470J	CHIP R 47	J 1/10W	R208			RK73FB2B103J	CHIP R 10K	J 1/8W
R70			RK73GH2A153D	CHIP R 15K	D 1/10W	R209			RK73GB2A223J	CHIP R 22K	J 1/10W
R71			RK73GH2A512D	CHIP R 5.1K	D 1/10W	R210			RK73GB2A104J	CHIP R 100K	J 1/10W
						R211			RK73GB2A361J	CHIP R 360	J 1/10W

E3 : DDX6027 E4 : DDX6027Y (Europe)

△ Indicates safety critical components.

K1 : DDX7017 (North America)

X2 : DDX7047 (Australia) R1 : DDX7047 (Latin America)

C1 : DDX7067 (China) M2 : DDX7037 (Other Areas)

## PARTS LIST

## ELECTRIC UNIT (X34-384/385x-xx)

Ref. No.	A d d	N e w	Parts No.	Description			Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description			Desti- nation
R212			RK73EB2E820J	CHIP R	82	J 1/4W		R304			RK73GB2A101J	CHIP R	100	J 1/10W	
R213			RK73FB2B203J	CHIP R	20K	J 1/8W		R305			RK73GB2A104J	CHIP R	100K	J 1/10W	
R214			RK73FB2B103J	CHIP R	10K	J 1/8W		R306			RK73GB2A103J	CHIP R	10K	J 1/10W	
R215			RK73GB2A361J	CHIP R	360	J 1/10W		R313			RK73GB2A104J	CHIP R	100K	J 1/10W	
R216			RK73GB2A104J	CHIP R	100K	J 1/10W		R314			RK73GB2A103J	CHIP R	10K	J 1/10W	
R217			RK73GB2A223J	CHIP R	22K	J 1/10W		R315			RK73GB2A101J	CHIP R	100	J 1/10W	
R218,219			RK73GB2A473J	CHIP R	47K	J 1/10W		R316			RK73GB2A103J	CHIP R	10K	J 1/10W	
R220			RK73GB2A223J	CHIP R	22K	J 1/10W		R317			RK73GB2A101J	CHIP R	100	J 1/10W	
R221			RK73GB2A104J	CHIP R	100K	J 1/10W		R319			RK73GB2A473J	CHIP R	47K	J 1/10W	
R222			RK73EB2E820J	CHIP R	82	J 1/4W		R320,321			RK73GB2A104J	CHIP R	100K	J 1/10W	
R223			RK73FB2B203J	CHIP R	20K	J 1/8W		R322			RK73GB2A101J	CHIP R	100	J 1/10W	
R224			RK73FB2B103J	CHIP R	10K	J 1/8W		R323			RK73GB2A104J	CHIP R	100K	J 1/10W	
R225,226			RK73GB2A361J	CHIP R	360	J 1/10W		R324			RK73GB2A101J	CHIP R	100	J 1/10W	
R227			RK73FB2B203J	CHIP R	20K	J 1/8W		R325			RK73GB2A472J	CHIP R	4.7K	J 1/10W	
R228			RK73FB2B103J	CHIP R	10K	J 1/8W		R326			RK73GB2A101J	CHIP R	100	J 1/10W	
R229			RK73GB2A104J	CHIP R	100K	J 1/10W		R327			RK73GB2A472J	CHIP R	4.7K	J 1/10W	
R230			RK73EB2E820J	CHIP R	82	J 1/4W		R328			RK73GB2A104J	CHIP R	100K	J 1/10W	
R231,232			RK73GB2A223J	CHIP R	22K	J 1/10W		R330			RK73GB2A222J	CHIP R	2.2K	J 1/10W	
R233			RK73GB2A104J	CHIP R	100K	J 1/10W		R331			RK73GB2A102J	CHIP R	1.0K	J 1/10W	
R234			RK73GB2A361J	CHIP R	360	J 1/10W		R332			RK73GB2A104J	CHIP R	100K	J 1/10W	
R235			RK73EB2E820J	CHIP R	82	J 1/4W		R335			RK73GB2A102J	CHIP R	1.0K	J 1/10W	
R236			RK73FB2B203J	CHIP R	20K	J 1/8W		R339			RK73GB2A103J	CHIP R	10K	J 1/10W	
R237			RK73FB2B103J	CHIP R	10K	J 1/8W		R343-345			RK73GB2A101J	CHIP R	100	J 1/10W	
R238			RK73EB2E750J	CHIP R	75	J 1/4W		R347			RK73GB2A101J	CHIP R	100	J 1/10W	
R239			RK73EB2E101J	CHIP R	100	J 1/4W		R349			RK73GB2A101J	CHIP R	100	J 1/10W	
R240			RK73GB2A361J	CHIP R	360	J 1/10W		R350			RK73GB2A104J	CHIP R	100K	J 1/10W	
R241,242			RK73GB2A223J	CHIP R	22K	J 1/10W		R351			RK73GB2A101J	CHIP R	100	J 1/10W	
R243			RK73EB2E101J	CHIP R	100	J 1/4W		R352			RK73GB2A104J	CHIP R	100K	J 1/10W	
R244			RK73GB2A361J	CHIP R	360	J 1/10W		R353			RK73GB2A101J	CHIP R	100	J 1/10W	
R245			RK73EB2E4R7J	CHIP R	4.7	J 1/4W	K1	R354			RK73GB2A104J	CHIP R	100K	J 1/10W	
R246			RK73EB2E100J	CHIP R	10	J 1/4W	K1	R355			RK73GB2A222J	CHIP R	2.2K	J 1/10W	
R247			RK73GB2A222J	CHIP R	2.2K	J 1/10W	K1	R356			RK73GB2A104J	CHIP R	100K	J 1/10W	
R248			RK73GB2A471J	CHIP R	470	J 1/10W		R357			RK73GB2A223J	CHIP R	22K	J 1/10W	
R249			RK73EB2E100J	CHIP R	10	J 1/4W	K1	R358-360			RK73GB2A104J	CHIP R	100K	J 1/10W	
R250			RK73EB2E4R7J	CHIP R	4.7	J 1/4W		R362			RK73GB2A223J	CHIP R	22K	J 1/10W	
R251			RK73EB2E100J	CHIP R	10	J 1/4W		R363			RK73GB2A103J	CHIP R	10K	J 1/10W	
R252			RK73GB2A222J	CHIP R	2.2K	J 1/10W		R365			RK73GB2A103J	CHIP R	10K	J 1/10W	R1X2C1
R253			RK73EB2E101J	CHIP R	100	J 1/4W	K1	R366,367			RK73GB2A103J	CHIP R	10K	J 1/10W	K1E3E4
R254			RK73EB2E100J	CHIP R	10	J 1/4W		R366,367			RK73GB2A103J	CHIP R	10K	J 1/10W	M2
R255,256			RK73GB2A750J	CHIP R	75	J 1/10W	K1	R367			RK73GB2A103J	CHIP R	10K	J 1/10W	R1X2C1
R256			RK73GB2A750J	CHIP R	75	J 1/10W		R369			RK73GB2A103J	CHIP R	10K	J 1/10W	M2
R256			RK73GB2A750J	CHIP R	75	J 1/10W		R369			RK73GB2A103J	CHIP R	10K	J 1/10W	R1E3E4
R257			RK73GB2A222J	CHIP R	2.2K	J 1/10W	E4M2	R370			RK73GB2A103J	CHIP R	10K	J 1/10W	X2C1
R257			RK73GB2A222J	CHIP R	2.2K	J 1/10W	K1R1E3	R370,371			RK73GB2A103J	CHIP R	10K	J 1/10W	K1
R260			RK73GB2A222J	CHIP R	2.2K	J 1/10W	E4M2	R371			RK73GB2A103J	CHIP R	10K	J 1/10W	R1M2
R260			RK73GB2A222J	CHIP R	2.2K	J 1/10W	K1R1E3	R372,373			RK73GB2A103J	CHIP R	10K	J 1/10W	C1
R261			RK73EB2E101J	CHIP R	100	J 1/4W		R372,373			RK73GB2A103J	CHIP R	10K	J 1/10W	E3E4X2
R262			RK73GB2A222J	CHIP R	2.2K	J 1/10W	E4M2	R373			RK73GB2A103J	CHIP R	10K	J 1/10W	K1R1M2
R262			RK73GB2A222J	CHIP R	2.2K	J 1/10W	K1R1E3	R400			RK73GB2A103J	CHIP R	10K	J 1/10W	
R263			RK73GB2A223J	CHIP R	22K	J 1/10W		R401			RK73GB2A334J	CHIP R	330K	J 1/10W	
R265			RK73GB2A102J	CHIP R	1.0K	J 1/10W		R402			RK73GB2A561J	CHIP R	560	J 1/10W	
R266			RK73EB2E101J	CHIP R	100	J 1/4W		R403			RK73GB2A102J	CHIP R	1.0K	J 1/10W	
R267			RK73GB2A750J	CHIP R	75	J 1/10W		R404			RK73GB2A222J	CHIP R	2.2K	J 1/10W	
R300			RK73GB2A104J	CHIP R	100K	J 1/10W		R412-415			RK73GB2A103J	CHIP R	10K	J 1/10W	
R301,302			RK73GB2A101J	CHIP R	100	J 1/10W		R500,501			RK73EB2E100J	CHIP R	10	J 1/4W	

E3 : DDX6027    E4 : DDX6027Y (Europe)

K1 : DDX7017 (North America)

X2 : DDX7047 (Australia)    R1 : DDX7047 (Latin America)

C1 : DDX7067 (China)    M2 : DDX7037 (Other Areas)

△ Indicates safety critical components.

## PARTS LIST

### ELECTRIC UNIT (X34-384/385x-xx)

Ref. No.	A d d	N e w	Parts No.	Description			Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
R502			RK73EB2E4R7J	CHIP R	4.7	J	1/4W	D9			RM10ZLFNF	DIODE	
R503			RK73GB2A102J	CHIP R	1.0K	J	1/10W	D10			1SR154-400	DIODE	E3E4
R504			RK73GB2A222J	CHIP R	2.2K	J	1/10W	D10,11			1SR154-400	DIODE	K1R1M2
R505			RK73EB2E472J	CHIP R	4.7K	J	1/4W	D10,11			1SR154-400	DIODE	X2C1
R506			RK73EB2E101J	CHIP R	100	J	1/4W	D12			DAP202U	DIODE	
R507-510			RK73EB2E472J	CHIP R	4.7K	J	1/4W	D13,14			1SR154-400	DIODE	
R511,512			RK73EB2E101J	CHIP R	100	J	1/4W	D15			UDZS6.8B	ZENER DIODE	
R513,514			RK73GB2A103J	CHIP R	10K	J	1/10W	D16			UDZS5.6B	ZENER DIODE	
R515			RK73GB2A102J	CHIP R	1.0K	J	1/10W	D17			UDZS4.7B	ZENER DIODE	
R517			RK73GB2A102J	CHIP R	1.0K	J	1/10W	D18			DAP202U	DIODE	
R518			RK73GB2A101J	CHIP R	100	J	1/10W	D19			UDZS6.8B	ZENER DIODE	
R519-521			RK73GB2A102J	CHIP R	1.0K	J	1/10W	D52			UDZS11B	ZENER DIODE	
R522			RK73GB2A101J	CHIP R	100	J	1/10W	D54,55			UDZS5.6B	ZENER DIODE	
R527			RK73GB2A750J	CHIP R	75	J	1/10W	D100,101			DAP202U	DIODE	
R528			RK73GB2A681J	CHIP R	680	J	1/10W	D150			UDZS6.8B	ZENER DIODE	
R529			RK73GB2A4R7J	CHIP R	4.7	J	1/10W	D151			DA227	DIODE	
R530			RK73GB2A150J	CHIP R	15	J	1/10W	D152			UDZS16B	ZENER DIODE	
R531			RK73EB2E100J	CHIP R	10	J	1/4W	D155-157			DAP202U	DIODE	
R532			RK73EB2E4R7J	CHIP R	4.7	J	1/4W	D200			DAP202U	DIODE	
R533			RK73EB2E100J	CHIP R	10	J	1/4W	D201			STZ6.2N	ZENER DIODE	
R534,535			RK73EB2E102J	CHIP R	1.0K	J	1/4W	D203,204			DAP202U	DIODE	
R536-538			RK73EB2E101J	CHIP R	100	J	1/4W	D205			UDZS4.7B	ZENER DIODE	
R539,540			RK73EB2E102J	CHIP R	1.0K	J	1/4W	D206			STZ6.2N	ZENER DIODE	K1
R541-548			RK73GB2A750J	CHIP R	75	J	1/10W	E3E4			STZ6.8N	ZENER DIODE	K1
R544-548			RK73GB2A750J	CHIP R	75	J	1/10W	K1R1M2			STZ6.8N	ZENER DIODE	M2X2C1
R549-551			RK73EB2E102J	CHIP R	75	J	1/10W	D207-209			D209		
R552			RK73EB2E4R7J	CHIP R	1.0K	J	1/4W	D210			STZ6.8N	ZENER DIODE	
R553,554			RK73EB2E100J	CHIP R	4.7	J	1/4W	D211			STZ6.2N	ZENER DIODE	
R565			RK73EB2E101J	CHIP R	10	J	1/4W	D212-214			D212-214	DAP202U	
R566			RK73EB2E101J	CHIP R	100	J	1/4W	D216			D216	DAP202U	
R567			RK73EB2E101J	CHIP R	100	J	1/4W	X2C1			D218	STZ6.8N	ZENER DIODE
R568-572			RK73EB2E101J	CHIP R	100	J	1/4W	E3E4			D252	IMSA-6801-E	SURGE ABSORBER
R569-572			RK73EB2E101J	CHIP R	100	J	1/4W	K1R1M2			D300	DA227	DIODE
R578			RK73EB2E101J	CHIP R	100	J	1/4W	X2C1			D413	UDZS4.7B	ZENER DIODE
R579			RK73EB2E472J	CHIP R	4.7K	J	1/4W	E3E4			D414	DAP202U	DIODE
R580			RK73EB2E101J	CHIP R	100	J	1/4W	D209			STZ6.8N	ZENER DIODE	
R581			RK73EB2E223J	CHIP R	22K	J	1/4W	D252			STZ6.2N	ZENER DIODE	
R582			RK73EB2E102J	CHIP R	1.0K	J	1/4W	D300			D502	UDZS4.7B	ZENER DIODE
R594			RK73GB2A104J	CHIP R	100K	J	1/10W	D503			D503	DAP202U	DIODE
R600			RK73GB2A100J	CHIP R	10	J	1/10W	D504-507			D503	STZ6.2N	ZENER DIODE
R800			RK73EB2E102J	CHIP R	1.0K	J	1/4W	D500			STZ6.8N	ZENER DIODE	
R801			RK73GB2A104J	CHIP R	100K	J	1/10W	D501			STZ6.2N	ZENER DIODE	
R802			RK73GB2A102J	CHIP R	1.0K	J	1/10W	M2X2C1			D502	UDZS4.7B	ZENER DIODE
R802,803			RK73GB2A102J	CHIP R	1.0K	J	1/10W	R1E3E4			D503	DAP202U	DIODE
R804-811			RK73GB2A103J	CHIP R	10K	J	1/10W	K1			D504-507	STZ6.2N	ZENER DIODE
R850-856			RK73GB2A101J	CHIP R	100	J	1/10W	D508			D508	DAN202U	DIODE
W1			R92-1252-05	CHIP R	0 OHM	J	1/16W	D521			D521	STZ6.8N	ZENER DIODE
W50			RK73EB2E000J	CHIP R	0.0	J	1/4W	M2X2C1			D522-525	STZ6.2N	ZENER DIODE
R100			R92-1252-05	CHIP R	0 OHM	J	1/16W	R1E3E4			D522-525	STZ6.2N	ZENER DIODE
W300			R92-1252-05	CHIP R	0 OHM	J	1/16W	D522-535			D522-535	STZ6.2N	ZENER DIODE
W852			R92-1252-05	CHIP R	0 OHM	J	1/16W	D529-535			D529-535	STZ6.2N	ZENER DIODE
D1-8			M1F60-5063	DIODE			D529-535			D529-535	STZ6.2N	ZENER DIODE	
							D536,537			D536,537	STZ6.2N	ZENER DIODE	
							D538			D538	DA204U	DIODE	
							D539			D539	STZ6.2N	ZENER DIODE	
							D550			D550	STZ6.2N	ZENER DIODE	
							D800			D800	STZ6.2N	ZENER DIODE	
							IC50			IC50	M5237ML-CF0J	ANALOGUE IC	
							IC52			IC52	ICL7660SIBAZ	ANALOGUE IC	
							IC54			IC54	M5237ML-CF0J	ANALOGUE IC	

E3 : DDX6027 E4 : DDX6027Y (Europe)

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△ Indicates safety critical components.

## PARTS LIST

## ELECTRIC UNIT (X34-384/385x-xx)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
IC100			E-TDA7560A	ANALOGUE IC		Q151			2SA1774	TRANSISTOR	
IC150			NJM4565V-ZB	ANALOGUE IC		Q152			2SC2873-F	TRANSISTOR	
IC151			E-TDA7415	ANALOGUE IC		Q200-202			DTC323TU	DIGITAL TRANSISTOR	
IC200-202			NJM4565V-ZB	ANALOGUE IC		Q203			2SA1576A	TRANSISTOR	
IC203,204			BA3121F	ANALOGUE IC	K1	Q204-207			DTC323TU	DIGITAL TRANSISTOR	
IC204			BA3121F	ANALOGUE IC	M2X2C1	Q208			DTA144EUA	DIGITAL TRANSISTOR	
IC204			BA3121F	ANALOGUE IC	R1E3E4	Q209			DTCA323TU	DIGITAL TRANSISTOR	
IC251			E-TDA7479AD	ANALOGUE IC	E4M2	Q250			DTC124EUA	DIGITAL TRANSISTOR	
IC251			E-TDA7479AD	ANALOGUE IC	K1R1E3	Q252			2SB1689	TRANSISTOR	
IC300			S-80842CNNB-G	MOS-IC		Q403-406			DTC124EUA	DIGITAL TRANSISTOR	
IC301			SN74HC02APWR	MOS-IC		Q500			DTA124EUA	DIGITAL TRANSISTOR	
IC302			BR24L02FV-W	ROM IC		TH100			PRF18BE471QS2	POSITIVE RESISTOR	
IC303			703030YGCJ13A	MICROCONTROLLER IC		A250	*	X86-3930-13		FRONT-END UNIT	K1R1X2
IC400-402			MM1503-E	ANALOGUE IC		A250	*	X86-3932-72		FRONT-END UNIT	E3E4M2
IC403			MM1108XFFE-E	ANALOGUE IC		A250	*	X86-3942-12		FRONT-END UNIT	C1
IC404			BA7653AFV	ANALOGUE IC							
IC405			BA3121F	ANALOGUE IC							
IC406			BA7652AF	ANALOGUE IC							
IC407,408			MM1228XFBE-E	ANALOGUE IC							
IC413,414			TC4052BFT	MOS-IC							
IC415			MM1503-E	ANALOGUE IC							
IC416			BA7652AF	ANALOGUE IC							
IC500			BA3121F	ANALOGUE IC							
IC501			TC7SET04FU-F	MOS-IC							
IC502			TC7SH08FU-F	MOS-IC							
Q6,7			DTC114YUA	DIGITAL TRANSISTOR	K1R1M2	C1			C92-1857-05	ELECTRO	33UF 10WV
Q6,7			DTC114YUA	DIGITAL TRANSISTOR	X2C1	C3			C93-1283-05	CHIP C	1.0UF K
Q7			DTC114YUA	DIGITAL TRANSISTOR	E3E4	C4			C92-1857-05	ELECTRO	33UF 10WV
Q8			DTA114EUA	DIGITAL TRANSISTOR		C5			C93-1363-05	CHIP C	10PF 3KWV
Q9,10			2SB1188(Q,R)	TRANSISTOR	K1R1M2	C6			C93-1361-05	CHIP C	0.012UF 16WV
Q9,10			2SB1188(Q,R)	TRANSISTOR	X2C1	C7			CK73GB1H473K	CHIP C	0.047UF K
Q10			2SB1188(Q,R)	TRANSISTOR	E3E4	C8			C93-1269-05	CHIP C	220PF J
Q11			2SA1576A	TRANSISTOR		C9			CK73GB0J225K	CHIP C	2.2UF K
Q12			2SC4081	TRANSISTOR		C10			CK73GB1H103K	CHIP C	0.010UF K
Q13			DTA123JK	DIGITAL TRANSISTOR		C11			CK73GB0J225K	CHIP C	2.2UF K
Q14			2SA1576A	TRANSISTOR		C12			CK73GB1H103K	CHIP C	0.010UF K
Q15			2SC4081	TRANSISTOR		C13			CK73GB1A474K	CHIP C	0.47UF K
Q50			2SB1443	TRANSISTOR		C14			CK73GB1H103K	CHIP C	0.010UF K
Q51			2SC4081	TRANSISTOR		C15			CK73GB1H473K	CHIP C	0.047UF K
Q52			UMC2N	TRANSISTOR		C16			CK73GB1E183K	CHIP C	0.018UF K
Q54			2SC4081	TRANSISTOR		C17			CK73GB1H103K	CHIP C	0.010UF K
Q55			UMC2N	TRANSISTOR		C18			C93-1283-05	CHIP C	1.0UF K
Q58			2SB1184	TRANSISTOR		C21			CK73GB0J225K	CHIP C	2.2UF K
Q59			2SB1565	TRANSISTOR		C22			CK73GB1H152K	CHIP C	1500PF K
Q61			UMC2N	TRANSISTOR		C24			CK73GB1H103K	CHIP C	0.010UF K
Q62			DTC114EUA	DIGITAL TRANSISTOR		C25	*	C93-1285-05		CHIP C	0.0022UF 50WV
Q63			2SA1576A	TRANSISTOR		C26		CK73GB1H103K		CHIP C	0.010UF K
Q64			2SB1184	TRANSISTOR		C27		C93-1283-05		CHIP C	1.0UF K
Q65			2SA1576A	TRANSISTOR		C102		CK73EB1C106K		CHIP C	10UF K
Q66			2SC4081	TRANSISTOR		C103		CK73GB1H103K		CHIP C	0.010UF K
Q67			2SA1576A	TRANSISTOR		C105		CE32AU1C220M		CHIP EL	22UF 16WV
Q68			2SC4617	TRANSISTOR		C106		CK73GB1H103K		CHIP C	0.010UF K
Q69			2SA1774	TRANSISTOR		C108		CE32AU1C220M		CHIP EL	22UF 16WV
Q70			2SC4617	TRANSISTOR		C109		CK73FB1C105K		CHIP C	1.0UF K
Q150			UMC2N	TRANSISTOR		C110		CK73GB1H103K		CHIP C	0.010UF K

E3 : DDX6027 E4 : DDX6027Y (Europe)

K1 : DDX7017 (North America)

X2 : DDX7047 (Australia) R1 : DDX7047 (Latin America)

C1 : DDX7067 (China) M2 : DDX7037 (Other Areas)

△ Indicates safety critical components.

## PARTS LIST

### VIDEO UNIT (X35-458/459x-10)

Ref. No.	A d d	N e w	Parts No.	Description			Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description			Desti- nation
C112			CK73FB1E154K	CHIP C	0.15UF	K		CN303			E41-2065-05	FLAT CABLE CONNECTOR			
C113			CK73EB1E225K	CHIP C	2.2UF	K		CN501			E41-2088-05	FLAT CABLE CONNECTOR			
C114			CK73GB1C224K	CHIP C	0.22UF	K		CN602			E41-0451-25	FLAT CABLE CONNECTOR			
C115			CK73GB1H104K	CHIP C	0.10UF	K		CN604			E41-2208-05	FLAT CABLE CONNECTOR			
C116			C92-1685-05	ELECTRO	47UF	6.3WV		CN701	*		E41-2542-05	FLAT CABLE CONNECTOR			
C118			CK73GB1H103K	CHIP C	0.010UF	K		F1			F53-0297-05	FUSE (UL, CSA)			
C119			CC73GCH1H151J	CHIP C	150PF	J		F107			F53-0314-05	FUSE (UL, CSA)			
C211			CK73EB1A475K	CHIP C	4.7UF	K		L1			L19-0783-05	TRANSFORMER FOR CONVERTER			
C230			CK73GB1H103K	CHIP C	0.010UF	K		L2			L33-1933-05	CHOKE COIL			
C231,232			CK73DF1E106Z	CHIP C	10UF	Z		L101,102			L41-3392-13	SMALL FIXED INDUCTOR (3.3UH)			
C233			CK73GB1H103K	CHIP C	0.010UF	K		L103			L41-4792-13	SMALL FIXED INDUCTOR (4.7UH)			
C234			CC73GCH1H560J	CHIP C	56PF	J		L104-106			L41-1005-33	SMALL FIXED INDUCTOR (10U)			
C300			CK73GB1H103K	CHIP C	0.010UF	K		L306			L41-5695-33	SMALL FIXED INDUCTOR (5.6U)			
C301,302			CK73DF1E106Z	CHIP C	10UF	Z		L307			L41-8281-15	SMALL FIXED INDUCTOR (0.82U)			
C303			CK73GB1H103K	CHIP C	0.010UF	K		L501			L41-1005-33	SMALL FIXED INDUCTOR (10U)			
C304			CK73GB1H104K	CHIP C	0.10UF	K		L601			L41-1005-33	SMALL FIXED INDUCTOR (10U)			
C305			CK73GB1H103K	CHIP C	0.010UF	K		CP301,302			RK74GB1J102J	CHIP-COM	1.0K	J	1/16W
C306			CC73GCH1H101J	CHIP C	100PF	J		CP303			RK74GB1J101J	CHIP-COM	100	J	1/16W
C307			CK73EB1C106K	CHIP C	10UF	K		R1			RK73GB2A512J	CHIP R	5.1K	J	1/10W
C308			CK73GB1H103K	CHIP C	0.010UF	K		R2			RK73GB2A515J	CHIP R	5.1M	J	1/10W
C309			CC73GCH1H100D	CHIP C	10PF	D		R3			RK73GB2A220J	CHIP R	22	J	1/10W
C310			CK73GB1H561K	CHIP C	560PF	K		R4			RN73GH1J433D	CHIP R	43K	D	1/16W
C311-314			CK73GB1H103K	CHIP C	0.010UF	K		R5			RK73GB2A153J	CHIP R	15K	J	1/10W
C315,316			CK73GB1H104K	CHIP C	0.10UF	K		R6			RN73GH1J513D	CHIP R	51K	D	1/16W
C317			CK73GB1H103K	CHIP C	0.010UF	K		R7			RK73GB2A220J	CHIP R	22	J	1/10W
C318,319			CK73GB1H104K	CHIP C	0.10UF	K		R8			RK73GB2A512J	CHIP R	5.1K	J	1/10W
C320			CC73GCH1H560J	CHIP C	56PF	J		R9			RK73GH2A244D	CHIP R	240K	D	1/10W
C321			CK73GB1H104K	CHIP C	0.10UF	K		R10			RK73GB2A331J	CHIP R	330	J	1/10W
C322			CC73GCH1E102J	CHIP C	1000PF	J		R11			RK73GB2A220J	CHIP R	22	J	1/10W
C323			CC73GCH1H101J	CHIP C	100PF	J		R12			RK73GB2A105J	CHIP R	1.0M	J	1/10W
C324,325			CK73GB1H103K	CHIP C	0.010UF	K		R13			RK73GB2A220J	CHIP R	22	J	1/10W
C326			CC73GCH1H681J	CHIP C	680PF	J		R14			RN73GH1J4530D	CHIP R	453.0	D	1/16W
C327,328			CK73GB1H104K	CHIP C	0.10UF	K		R15			RN73GH1J513D	CHIP R	51K	D	1/16W
C330			CK73EB1A106K	CHIP C	10UF	K		R16,17			RK73GB2A220J	CHIP R	22	J	1/10W
C331,332			CC73GCH1H390J	CHIP C	39PF	J		R18			RK73GB2A222J	CHIP R	2.2K	J	1/10W
C333			CK73GB1H104K	CHIP C	0.10UF	K		R19			RK73GB2A104J	CHIP R	100K	J	1/10W
C334			CK73GB1H103K	CHIP C	0.010UF	K		R101			RK73GH2A104D	CHIP R	100K	D	1/10W
C335,336			CK73GB1H104K	CHIP C	0.10UF	K		R102			RK73GH2A113D	CHIP R	11K	D	1/10W
C341			CC73GCH1H100D	CHIP C	10PF	D		R103			RK73GH2A184D	CHIP R	180K	D	1/10W
C425			CK73FB1C105K	CHIP C	1.0UF	K		R104			RK73GH2A133D	CHIP R	13K	D	1/10W
C426			CK73EB1E105K	CHIP C	1.0UF	K		R105			RK73GB2A473J	CHIP R	47K	J	1/10W
C427			CK73FB1A225K	CHIP C	2.2UF	K		R106			RK73GB2A100J	CHIP R	10	J	1/10W
C428			CK73EB1C106K	CHIP C	10UF	K		R107			RK73GB2A222J	CHIP R	2.2K	J	1/10W
C502,503			CK73GB1H103K	CHIP C	0.010UF	K		R218			RK73GB2A102J	CHIP R	1.0K	J	1/10W
C504			CK73EB1A106K	CHIP C	10UF	K		R219			RK73GB2A473J	CHIP R	47K	J	1/10W
C505			CK73GB1H271K	CHIP C	270PF	K		R234			RN73GH1J472D	CHIP R	4.7K	D	1/16W
C506			CC73GCH1H101J	CHIP C	100PF	J		R235			RN73GH1J912D	CHIP R	9.1K	D	1/16W
C601			CK73GB1H221K	CHIP C	220PF	K		R236			RN73GH1J222D	CHIP R	2.2K	D	1/16W
C602			CK73GB1H103K	CHIP C	0.010UF	K		R240			RK73GB2A470J	CHIP R	47	J	1/10W
C603			CK73GB0J225K	CHIP C	2.2UF	K		R242			RK73GB2A470J	CHIP R	47	J	1/10W
C604			CC73GCH1H101J	CHIP C	100PF	J		R300			RK73GB2A103J	CHIP R	10K	J	1/10W
C605			CK73EB1A106K	CHIP C	10UF	K		R301			RK73GB2A101J	CHIP R	100	J	1/10W
CN1	*		E41-2483-05	PIN ASSY				R302			RK73GB2A221J	CHIP R	220	J	1/10W
CN302	*		E41-2525-05	FLAT CABLE CONNECTOR				R303-306			RK73GB2A102J	CHIP R	1.0K	J	1/10W

E3 : DDX6027 E4 : DDX6027Y (Europe)

K1 : DDX7017 (North America)

X2 : DDX7047 (Australia) R1 : DDX7047 (Latin America)

C1 : DDX7067 (China) M2 : DDX7037 (Other Areas)

△ Indicates safety critical components.

## PARTS LIST

VIDEO UNIT (X35-458/459x-10)

Ref. No.	A d d	N e w	Parts No.	Description			Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description			Desti- nation
R307			RK73GB2A101J	CHIP R	100	J	1/10W	R619,620			RK73GB2A101J	CHIP R	100	J	1/10W
R308			RK73GB2A621J	CHIP R	620	J	1/10W	R621			RK73GB2A102J	CHIP R	1.0K	J	1/10W
R309			RK73GB2A102J	CHIP R	1.0K	J	1/10W	R623			RK73GB2A511J	CHIP R	510	J	1/10W
R310,311			RK73GB2A103J	CHIP R	10K	J	1/10W	R624			RK73GB2A104J	CHIP R	100K	J	1/10W
R312			RK73GB2A101J	CHIP R	100	J	1/10W	R625			RK73GB2A101J	CHIP R	100	J	1/10W
R316			RK73GB2A102J	CHIP R	1.0K	J	1/10W	R702			RK73FB2B561J	CHIP R	560	J	1/8W
R318			RK73GB2A102J	CHIP R	1.0K	J	1/10W	R703			RK73FB2B331J	CHIP R	330	J	1/8W
R321			RN73GH1J472D	CHIP R	4.7K	D	1/16W	VR203			R32-0328-05	SEMI FIXED VARIABLE RESISTOR			
R324,325			RN73GH1J472D	CHIP R	4.7K	D	1/16W	VR301			R32-0328-05	SEMI FIXED VARIABLE RESISTOR			
R326			RK73GH2A473D	CHIP R	47K	D	1/10W	W3			R92-1252-05	CHIP R	0 OHM	J	1/16W
R327			RK73GH2A683D	CHIP R	68K	D	1/10W	W216,217			RK73FB2B000J	CHIP R	0.0	J	1/8W
R328			RK73GH2A153D	CHIP R	15K	D	1/10W	W253			RK73FB2B000J	CHIP R	0.0	J	1/8W
R329			RK73GH2A101D	CHIP R	100	D	1/10W	W254,255			R92-1252-05	CHIP R	0 OHM	J	1/16W
R330			RK73GH2A182D	CHIP R	1.8K	D	1/10W	W300,301			R92-1252-05	CHIP R	0 OHM	J	1/16W
R331			RK73GH2A331D	CHIP R	330	D	1/10W	W309,310			R92-1252-05	CHIP R	0 OHM	J	1/16W
R332			RK73GH2A332D	CHIP R	3.3K	D	1/10W	W320			R92-1252-05	CHIP R	0 OHM	J	1/16W
R337,338			RK73GB2A101J	CHIP R	100	J	1/10W	W323			R92-1252-05	CHIP R	0 OHM	J	1/16W
R339			RK73GB2A102J	CHIP R	1.0K	J	1/10W	W333-335			R92-1252-05	CHIP R	0 OHM	J	1/16W
R340-344			RK73GB2A101J	CHIP R	100	J	1/10W	W354-357			R92-1252-05	CHIP R	0 OHM	J	1/16W
R345			RK73GH2A683D	CHIP R	68K	D	1/10W	W366			R92-1252-05	CHIP R	0 OHM	J	1/16W
R346			RK73GB2A105J	CHIP R	1.0M	J	1/10W	W371			R92-1252-05	CHIP R	0 OHM	J	1/16W
R347			RK73GH2A153D	CHIP R	15K	D	1/10W	W385			R92-1252-05	CHIP R	0 OHM	J	1/16W
R348			RK73GB2A362J	CHIP R	3.6K	J	1/10W	W392			RK73EB2E000J	CHIP R	0.0	J	1/4W
R349			RK73GB2A752J	CHIP R	7.5K	J	1/10W	W398			RK73EB2E000J	CHIP R	0.0	J	1/4W
R350-352			RK73GB2A101J	CHIP R	100	J	1/10W	S601			S70-0901-05	TACT SWITCH			
R353	*		RK73GB2A300J	CHIP R	30	J	1/10W	S602,603			S70-0919-05	TACT SWITCH			
R354			RK73GB2A820J	CHIP R	82	J	1/10W	S604,605			S70-0901-05	TACT SWITCH			
R359,360			RK73GB2A100J	CHIP R	10	J	1/10W	S606-608			S70-0919-05	TACT SWITCH			
R361			RK73GB2A562J	CHIP R	5.6K	J	1/10W	S609			S70-0901-05	TACT SWITCH			
R373,374			RK73GB2A561J	CHIP R	560	J	1/10W	S614			S70-0919-05	TACT SWITCH			
R380,381			RK73EB2E101J	CHIP R	100	J	1/4W	S615			S70-0910-05	TACT SWITCH			
R385,386			RK73EB2E100J	CHIP R	10	J	1/4W	S616			S70-0919-05	TACT SWITCH			
R387,388			RK73EB2E101J	CHIP R	100	J	1/4W	S617,618			S70-0901-05	TACT SWITCH			
R391			RK73EB2E101J	CHIP R	100	J	1/4W	D1,2			UDZS4.7B	ZENER DIODE			
R393-397			RK73EB2E101J	CHIP R	100	J	1/4W	D3			1SS355	DIODE			
R501,502			RK73GB2A333J	CHIP R	33K	J	1/10W	D4,5			DA204U	DIODE			
R503-506			RK73EB2E100J	CHIP R	10	J	1/4W	D6			MA2S784-F	DIODE			
R601			RK73GB2A101J	CHIP R	100	J	1/10W	D7			UDZS5.6B	ZENER DIODE			
R602			RK73GB2A242J	CHIP R	2.4K	J	1/10W	D8			AVRM1608120M6A	VARISTOR			
R603			RK73GB2A362J	CHIP R	3.6K	J	1/10W	D101			EP05Q04	DIODE			
R604			RK73GB2A622J	CHIP R	6.2K	J	1/10W	D102			EP05Q06	DIODE			
R605			RK73GB2A123J	CHIP R	12K	J	1/10W	D103,104			EP05Q04	DIODE			
R606			RK73GB2A101J	CHIP R	100	J	1/10W	D301			UDZS5.1B	ZENER DIODE			
R607			RK73GB2A242J	CHIP R	2.4K	J	1/10W	D302,303			DA204U	DIODE			
R608			RK73GB2A362J	CHIP R	3.6K	J	1/10W	D304			UDZS5.1B	ZENER DIODE			
R609			RK73GB2A622J	CHIP R	6.2K	J	1/10W	D309			1SV231-F	VARIABLE CAPACITANCE DIODE			
R610			RK73GB2A123J	CHIP R	12K	J	1/10W	D310			AVRM1608180M6A	VARISTOR			
R611			RK73GB2A363J	CHIP R	36K	J	1/10W	D501-504			UDZS6.2B	ZENER DIODE			
R612			RK73GB2A361J	CHIP R	360	J	1/10W	D601-603			AVRM1608180M6A	VARISTOR			
R613			RK73GB2A101J	CHIP R	100	J	1/10W	D612			AVRM1608180M6A	VARISTOR			
R614			RK73GB2A361J	CHIP R	360	J	1/10W	D615,616			AVRM1608180M6A	VARISTOR			
R615			RK73GB2A101J	CHIP R	100	J	1/10W	D622,623			AVRM1608180M6A	VARISTOR			
R616			RK73GB2A361J	CHIP R	360	J	1/10W	D627,628			AVRM1608180M6A	VARISTOR			
R617			RK73GB2A101J	CHIP R	100	J	1/10W	D636-638			AVRM1608180M6A	VARISTOR			
R618			RK73GB2A361J	CHIP R	360	J	1/10W								

E3 : DDX6027    E4 : DDX6027Y (Europe)

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△ Indicates safety critical components.

## PARTS LIST

### VIDEO UNIT (X35-458/459x-10)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
D639			DA204U	DIODE	
D690			DAN202U	DIODE	
IC1			OZ964ISN-C	ANALOGUE IC	
IC101			LT1947-PBF	ANALOGUE IC	
IC203			TA75W558FU-F	ANALOGUE IC	
IC300			TC7WH126FU-F	MOS-IC	
IC301			TC200G02G0104	MOS-IC	
IC302			TC7SH08FU-F	MOS-IC	
IC303			NJM2107F-ZB	ANALOGUE IC	
IC601			RS-181	ANALOGUE IC	
Q1			2SC4081	TRANSISTOR	
Q2,3			SI5513DC-E3	DUAL FET	
Q5			2SC4081	TRANSISTOR	
Q101			DTC124EUA	DIGITAL TRANSISTOR	
Q102			DTA124EUA	DIGITAL TRANSISTOR	
Q202			2SC4097	TRANSISTOR	
Q203			2SA1577	TRANSISTOR	
Q300			DTC124EUA	DIGITAL TRANSISTOR	
Q301			2SC4097	TRANSISTOR	
Q302,303			DTA123JUA	DIGITAL TRANSISTOR	
Q304,305			DTC123JUA	DIGITAL TRANSISTOR	
Q306			DTC124EUA	DIGITAL TRANSISTOR	
Q307,308			2SC4081	TRANSISTOR	
Q601			DTC124EUA	DIGITAL TRANSISTOR	
Q602			DTA124EUA	DIGITAL TRANSISTOR	
Q604			DTC124EUA	DIGITAL TRANSISTOR	
Q605			DTA143EUA	DIGITAL TRANSISTOR	
Q701			DTC124EUA	DIGITAL TRANSISTOR	

### DVD UNIT (X37-1070-00)

C1-3			CK73HB1A104K	CHIP C	0.10UF	K	
C4,5			CK73HB0J105K	CHIP C	1.0UF	K	
C6			CK73GB0J475K	CHIP C	4.7UF	K	
C7			CK73FB0J106M	CHIP C	10UF	M	
C8			CK73FB0J226M	CHIP C	22UF	M	
C10			CK73HB1A104K	CHIP C	0.10UF	K	
C14			CK73FB0J106M	CHIP C	10UF	M	
C15			CK73HB0J105K	CHIP C	1.0UF	K	
C16			CK73HB1A104K	CHIP C	0.10UF	K	
C17			CK73HB0J105K	CHIP C	1.0UF	K	
C18			CK73HB1H332K	CHIP C	3300PF	K	
C19			CK73HB1A104K	CHIP C	0.10UF	K	
C20			CK73FB0J106M	CHIP C	10UF	M	
C21			CK73FB0J226M	CHIP C	22UF	M	
C23			CK73HB1A104K	CHIP C	0.10UF	K	
C24			CC73GCH1H471J	CHIP C	470PF	J	
C25			CK73HB1A104K	CHIP C	0.10UF	K	
C26			CK73HB1A473K	CHIP C	0.047UF	K	
C27			CK73HB1A104K	CHIP C	0.10UF	K	
C28			CK73HB1C103K	CHIP C	0.010UF	K	
C29			CK73HB0J105K	CHIP C	1.0UF	K	
C31			CK73HB1C223K	CHIP C	0.022UF	K	
C32			CC73HCH1H470J	CHIP C	47PF	J	
C33			CC73GCH1H102J	CHIP C	1000PF	J	
C35			CC73GCH1H102J	CHIP C	1000PF	J	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation	
C36			CC73GCH1H681J	CHIP C	680PF	J
C37			CK73HB1E682K	CHIP C	6800PF	K
C38			CK73HB0J105K	CHIP C	1.0UF	K
C39			CC73GCH1H331J	CHIP C	330PF	J
C40			CC73GCH1H102J	CHIP C	1000PF	J
C41			CK73HB0J105K	CHIP C	1.0UF	K
C42			CC73GCH1H681J	CHIP C	680PF	J
C43			CK73HB1H222K	CHIP C	2200PF	K
C44			CK73HB1H152K	CHIP C	1500PF	K
C45			CK73HB1H102K	CHIP C	1000PF	K
C46			CK73HB1A104K	CHIP C	0.10UF	K
C47-52			CK73HB0J105K	CHIP C	1.0UF	K
C53			CK73HB1A104K	CHIP C	0.10UF	K
C54,55			CK73HB0J105K	CHIP C	1.0UF	K
C56			C93-1228-05	CHIP C	1.0UF	M
C57,58			CK73HB0J105K	CHIP C	1.0UF	K
C60			CK73HB0J105K	CHIP C	1.0UF	K
C61			C93-1228-05	CHIP C	1.0UF	M
C62,63			CC73HCH1H120J	CHIP C	12PF	J
C64			CK73HB1C103K	CHIP C	0.010UF	K
C66			CK73FB0J106M	CHIP C	10UF	M
C67			C93-1228-05	CHIP C	1.0UF	M
C68,69			CK73HB0J105K	CHIP C	1.0UF	K
C70			CK73HB1A104K	CHIP C	0.10UF	K
C71			CK73FB0J226M	CHIP C	22UF	M
C72,73			CK73HB1A104K	CHIP C	0.10UF	K
C76			CK73HB1A104K	CHIP C	0.10UF	K
C80			CK73FB0J106M	CHIP C	10UF	M
C81			CK73FB0J226M	CHIP C	22UF	M
C82			CK73HB1A104K	CHIP C	0.10UF	K
C83,84			C92-1908-05	ELECTRO	47UF	6.3WV
C85,86			CK73HB1H102K	CHIP C	1000PF	K
C87-89			CK73HB1C103K	CHIP C	0.010UF	K
C90			CK73HB1C223K	CHIP C	0.022UF	K
C91			CK73HB1A333K	CHIP C	0.033UF	K
C92,93			CK73HB1C103K	CHIP C	0.010UF	K
C94			CK73GB0J475K	CHIP C	4.7UF	K
C95			CK73FB0J106M	CHIP C	10UF	M
C96			CK73FB0J226M	CHIP C	22UF	M
C97			CK73HB1C103K	CHIP C	0.010UF	K
C98			CK73GB0J475K	CHIP C	4.7UF	K
C99			CK73FB0J226M	CHIP C	22UF	M
C101			CK73FB0J226M	CHIP C	22UF	M
C102			C92-1908-05	ELECTRO	47UF	6.3WV
C104			CC73HCH1H100D	CHIP C	10PF	D
C105-108			CC73HCH1H151J	CHIP C	150PF	J
C109,110			CK73HB1H102K	CHIP C	1000PF	K
C120,121			CK73HB1C223K	CHIP C	0.022UF	K
CN1			E41-2194-05		FLAT CABLE CONNECTOR	
CN2			E41-2156-05		FLAT CABLE CONNECTOR	
CN3			E41-2158-05		FLAT CABLE CONNECTOR	
CN4			E41-2197-05		FLAT CABLE CONNECTOR	
CN5			E41-2189-05		FLAT CABLE CONNECTOR	
CN6			E41-2050-05		SOCKET FOR PIN ASSY	

E3 : DDX6027    E4 : DDX6027Y (Europe)

K1 : DDX7017 (North America)

X2 : DDX7047 (Australia)    R1 : DDX7047 (Latin America)

C1 : DDX7067 (China)    M2 : DDX7037 (Other Areas)

△ Indicates safety critical components.

## PARTS LIST

## DVD UNIT (X37-1070-00)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
L1-5			L92-0365-05	CHIP FERRITE		R79			R92-5031-05	CHIP R 5.1	F 1/8W
X1			L77-2870-05	CRYSTAL RESONATOR (16.897849M)		R80			RK73GB2A3R6J	CHIP R 3.6	J 1/10W
CP2-4			RK74HB1J103J	CHIP-COM 10K	J 1/16W	R81			RK73HB1J134J	CHIP R 130K	J 1/16W
CP5-9			RK74HB1J330J	CHIP-COM 33	J 1/16W	R82			RK73HB1J103J	CHIP R 10K	J 1/16W
CP10			RK74HB1J820J	CHIP-COM 82	J 1/16W	R83			RK73HB1J820J	CHIP R 82	J 1/16W
R1			RK73GH2A101D	CHIP R 100	D 1/10W	R84			RK73HB1J103J	CHIP R 10K	J 1/16W
R2,3			RK73HB1J104J	CHIP R 100K	J 1/16W	R85			RK73HB1J330J	CHIP R 33	J 1/16W
R8			RK73HB1J104J	CHIP R 100K	J 1/16W	R86-88			RK73HB1J820J	CHIP R 82	J 1/16W
R10			RK73HB1J103J	CHIP R 10K	J 1/16W	R89,90			RK73HB1J103J	CHIP R 10K	J 1/16W
R11			RK73HB1J225J	CHIP R 2.2M	J 1/16W	R91			RK73GH2A101D	CHIP R 100	D 1/10W
R12			RK73HB1J103J	CHIP R 10K	J 1/16W	R92			RK73HB1J104J	CHIP R 100K	J 1/16W
R15			RK73GH2A113D	CHIP R 11K	D 1/10W	R93			RK73HB1J222J	CHIP R 2.2K	J 1/16W
R16			RK73GH2A273D	CHIP R 27K	D 1/10W	R95			R92-5031-05	CHIP R 5.1	F 1/8W
R18			RK73HB1J125J	CHIP R 1.2M	J 1/16W	R96,97			RK73HB1J102J	CHIP R 1.0K	J 1/16W
R21			RK73GH2A153D	CHIP R 15K	D 1/10W	R98			R92-5025-05	CHIP R 3.3	F 1/8W
R22			RK73HB1J105J	CHIP R 1.0M	J 1/16W	R100,101			RK73HB1J510J	CHIP R 51	J 1/16W
R23			RK73HB1J472J	CHIP R 4.7K	J 1/16W	R102,103			RK73HB1J202J	CHIP R 2.0K	J 1/16W
R24			RK73GH2A123D	CHIP R 12K	D 1/10W	R104			RK73HB1J103J	CHIP R 10K	J 1/16W
R25-27			RK73HB1J103J	CHIP R 10K	J 1/16W	R105			RK73HB1J132J	CHIP R 1.3K	J 1/16W
R28,29			RK73HB1J102J	CHIP R 1.0K	J 1/16W	R106,107			RK73HB1J103J	CHIP R 10K	J 1/16W
R30-32			RK73HB1J132J	CHIP R 1.3K	J 1/16W	R108			RK73HB1J223J	CHIP R 22K	J 1/16W
R33			RK73HB1J103J	CHIP R 10K	J 1/16W	R109			RK73HB1J123J	CHIP R 12K	J 1/16W
R34,35			RK73HB1J472J	CHIP R 4.7K	J 1/16W	R110			RK73GH2A132D	CHIP R 1.3K	D 1/10W
R36			RK73HB1J102J	CHIP R 1.0K	J 1/16W	R117,118			RK73HB1J103J	CHIP R 10K	J 1/16W
R37			RK73HB1J132J	CHIP R 1.3K	J 1/16W	R120,121			RK73HB1J123J	CHIP R 12K	J 1/16W
R38,39			RK73HB1J102J	CHIP R 1.0K	J 1/16W	R122,123			RK73HB1J1R0J	CHIP R 1.0	J 1/16W
R40,41			RK73HB1J473J	CHIP R 47K	J 1/16W	W1-4			R92-1252-05	CHIP R 0 OHM	J 1/16W
R45			RK73HB1J105J	CHIP R 1.0M	J 1/16W	S3-5			S68-0895-05	PUSH SWITCH	
R46			RK73HB1J152J	CHIP R 1.5K	J 1/16W	D1,2			MAZS0510M	ZENER DIODE	
R47			RK73HB1J472J	CHIP R 4.7K	J 1/16W	D3			MA42D03	DIODE	
R49			RK73HB1J273J	CHIP R 27K	J 1/16W	D4-6			DAP202U	DIODE	
R51			RK73HB1J102J	CHIP R 1.0K	J 1/16W	D7			MA2S111	DIODE	
R52			RK73HB1J132J	CHIP R 1.3K	J 1/16W	IC1			AN22022A-V	ANALOGUE IC	
R53			RK73HB1J103J	CHIP R 10K	J 1/16W	IC2			AN41204A	ANALOGUE IC	
R54			RK73HB1J220J	CHIP R 22	J 1/16W	IC3			M29W400DB55N6E	ROM IC	
R55			RK73HB1J202J	CHIP R 2.0K	J 1/16W	IC4			MN103S71F	MOS-IC	
R56,57			RK73HB1J221J	CHIP R 220	J 1/16W	IC5			S-80829CNPF	ANALOGUE IC	
R58			RK73GH2A273D	CHIP R 27K	D 1/10W	IC8			S-80813CNPF	ANALOGUE IC	
R59			RK73GB2A150J	CHIP R 15	J 1/10W	IC9			IC9	ANALOGUE IC	
R61			RK73GB2A121J	CHIP R 120	J 1/10W	IC10			IC10	ANALOGUE IC	
R62			R92-3475-05	CHIP R 0.27	F 1/2W	IC11			IC11	ANALOGUE IC	
R63			RK73GB2A241J	CHIP R 240	J 1/10W	Q1,2			S-24CS04AFT	ROM IC	
R64			RK73HB1J222J	CHIP R 2.2K	J 1/16W	Q7,8			2SK3018	FET	
R65,66			RK73HB1J103J	CHIP R 10K	J 1/16W				2SB0970	TRANSISTOR	
R67			RK73HB1J472J	CHIP R 4.7K	J 1/16W	Q9,10			Q9,10	FET	
R68,69			RK73HB1J102J	CHIP R 1.0K	J 1/16W	Q11-14			2SJ0536	DIGITAL TRANSISTOR	
R70,71			RK73GH2A123D	CHIP R 12K	D 1/10W	TH1			DTA114YUA		
									TH11-3H103FT	THERMISTOR	
R72			RK73GH2A333D	CHIP R 33K	D 1/10W						
R73			RK73GH2A203D	CHIP R 20K	D 1/10W	1	1B		A10-5084-31	CHASSIS	
R74			RK73HB1J123J	CHIP R 12K	J 1/16W	2	2B		A10-5083-21	CHASSIS ASSY	
R75			RK73HB1J152J	CHIP R 1.5K	J 1/16W	3	3B		A11-1631-21	SUB CHASSIS	
R76			RK73HB1J751J	CHIP R 750	J 1/16W						
R77			RK73HB1J431J	CHIP R 430	J 1/16W	4	1B		D10-4763-32	ARM	
R78			RK73HB1J472J	CHIP R 4.7K	J 1/16W	5	1B		D10-4764-23	ARM	
						7	2B		D10-4768-12	SLIDER	

E3 : DDX6027    E4 : DDX6027Y (Europe)

K1 : DDX7017 (North America)

X2 : DDX7047 (Australia)    R1 : DDX7047 (Latin America)

C1 : DDX7067 (China)    M2 : DDX7037 (Other Areas)

△ Indicates safety critical components.

## PARTS LIST

### DVD MECHANISM ASSY (X92-5130-00)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
8	2B		D10-4769-03	SLIDER	
9	2A		D10-4771-02	SLIDER	
10	2A		D10-4772-03	SLIDER	
11	2A		D10-4773-13	SLIDER	
12	2B		D10-4774-03	LEVER	
13	2B		D10-4776-23	ARM	
14	3A		D10-4795-23	ARM	
17	3B		D12-0638-13	CAM	
21	2B		D13-2298-04	GEAR	
22	2B		D13-2299-04	GEAR	
23	2B		D13-2303-04	GEAR	
24	2B		D13-2305-04	GEAR	
25	2B		D13-2306-04	GEAR	
26	1A		D13-2308-04	GEAR	
27	1A		D13-2309-04	GEAR	
28	3B		D13-2316-24	GEAR ASSY	
29	2B		D13-2300-14	GEAR	
30	2A		D14-0799-14	ROLLER	
31	2A		D14-1006-04	ROLLER	
33	3A		D21-2429-13	SHAFT	
36	1A		D39-0259-05	DAMPER	
37	2B		E39-0556-05	LEAD WIRE	
VFC1	2A		E39-0602-05	FLAT CABLE	
38	3A		F07-1134-12	COVER	
39	3A		F09-1930-14	SHEET	
40	3A		F09-1960-04	SHEET	
44	3A		F09-1870-04	SHEET	
45	2B		G01-3192-04	EXTENSION SPRING	
46	2A		G01-3194-24	EXTENSION SPRING	
47	1B		G01-3195-14	EXTENSION SPRING	
48	2A		G01-3206-24	TORSION COIL SPRING	
49	2A		G01-3207-24	TORSION COIL SPRING	
50	3A		G01-3209-04	COMPRESSION SPRING	
51	3A		G02-1468-04	FLAT SPRING	
52	2B		G02-1504-33	FLAT SPRING ASSY	
53	1B		G02-1466-24	FLAT SPRING	
54	3B		G02-1488-04	FLAT SPRING	
55	3A		G02-1473-04	FLAT SPRING	
56	1B		G11-3614-04	CUSHION (SR-S-24P)	
57	3B		G11-3622-04	CUSHION (PORON)	
58	2B		J11-0654-13	CLAMPER	
59	1A		J22-0042-12	MOUNTING HARDWARE	
60	1B		J22-0043-12	MOUNTING HARDWARE	
61	3B		J22-0044-03	MOUNTING HARDWARE	
62	1A		J22-0103-23	MOUNTING HARDWARE ASSY	
63	2B		J22-0177-14	MOUNTING HARDWARE	
64	1A		J90-1066-41	GUIDE	
65	1B		J90-1067-13	GUIDE	
66	1B		J90-1087-32	GUIDE	
67	1B		J90-1088-32	GUIDE	
A	2A		N09-6143-05	MACHINE SCREW	
B	1A		N09-6144-05	MACHINE SCREW	
C	3B		N09-6145-05	MACHINE SCREW	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
D	3B		N09-6156-05	MACHINE SCREW (M1.4X1.6)	
E	1B		N09-6230-05	MACHINE SCREW	
F	1A		N19-2192-04	FLAT WASHER	
G	3B		N09-6133-05	MACHINE SCREW (SERRATED)	
H	3A		N09-6134-05	STEPPED SCREW (STEPPED)	
J	3A		N09-6203-05	MACHINE SCREW	
K	3A		N09-6221-15	MACHINE SCREW (P 1.4X3.5)	
L	2A		N09-6308-05	MACHINE SCREW (P 1.4X4.5)	
M	2A		N19-2183-14	FLAT WASHER	
VM1	2A		T42-1321-05	MOTOR ASSY	
VM2	3A		T42-1084-15	MOTOR ASSY	
VM3	2B		X94-2000-00	MOTORASSY (LO)	
71	2A		X94-2010-00	ROLLER ASSY	
VPU1	3B		X94-2020-00	OPTICAL PICKUP ASSY	
<b>PANEL MECHANISM ASSY (D40-2201-15)</b>					
601	2H		A10-5174-28	CHASSIS CALKING ASSY	
602	3G		D10-4801-38	SLIDER ASSY	
603	2G		D13-2324-08	GEAR	
604	2G		D13-2325-08	GEAR	
605	2G		D13-2326-08	GEAR	
607	2G		D14-0789-08	ROLLER	
608	1G		D19-0650-08	CLUTCH ASSY	
609	1H		E39-0671-08	WIRING HARNESS	
610	3G		G02-1480-08	FLAT SPRING	
611	3H		J22-0118-28	SLIDE RAIL	
612	3G		J22-0119-28	SLIDE RAIL	
613	2G		J22-0120-08	SLIDE RAIL	
614	2G		J90-1083-08	GUIDE	
615	2H		J22-0213-08	MOUNTING HARDWARE (MOTOR)	
A	1H		N09-6147-08	SCREW (M1.7X4)	
B	1H		N09-6148-08	SCREW (S2X2.3)	
D	3G		N09-6150-08	SCREW	
E	3G		N09-6151-08	SCREW	
F	1G		N19-2105-14	CUT WASHER (1.6X3.5Xt0.35)	
PM1	1H		T42-1100-18	MOTOR ASSY	
VR1	1H		T99-0448-05	SPEED DETECTOR	

E3 : DDX6027    E4 : DDX6027Y (Europe)

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C1 : DDX7067 (China)    M2 : DDX7037 (Other Areas)

△ Indicates safety critical components.

# SPECIFICATIONS (DDX7017/7047/7067)

## Monitor Section

Picture size .....	6.4 inches (diagonal) wide
W x H .....	143.6 W x 77.1 H (mm)
Display system .....	Transparent TN LCD panel
Drive system .....	TFT active matrix system
Number of pixels .....	336,960 (480H x 234V x RGB)
Effective pixels .....	99.99%
Pixel arrangement .....	RGB striped arrangement
Back lighting .....	Cold Cathode Fluorescent Tube

## DVD Section

D/A Converter .....	24Bit
Decoder .....	Linear PCM/Dolby Digital/dts/MP3/WMA
Wow & Flutter .....	Below Measurable Limit
Frequency response .....	
96k Sampling .....	20~22,000Hz
48k Sampling .....	20~22,000Hz
44.1k Sampling .....	20~20,000Hz
Total harmonic distortion 1kHz .....	0.007%
Signal to Noise ratio .....	98dB (DVD-Video 96k)
Dynamic range .....	98dB (DVD-Video 96k)
DISC Format .....	DVD-Video/VIDEO-CD/CD-DA
Sampling frequency .....	44.1kHz/48kHz, 96kHz
Quantifying bit number .....	16/20/24bit

## FM

Frequency range (Frequency step) .....	
DDX7017/7047(R) .....	87.9~107.9MHz (200kHz)
DDX7047(X)/7067 .....	87.5~108.0MHz (50kHz)
Usable sensitivity (S/N : 30dB) .....	9.3dBf (0.8μV/75Ω)
Quieting sensitivity (S/N : 50dB) .....	15.2dBf (1.6μV/75Ω)
Frequency response (±3.0dB) .....	30Hz~15kHz
S/N .....	70dB (MONO)
Selectivity .....	Over 80dB (±400kHz)
Stereo separation .....	40dB (1kHz)

## AM

Frequency range (Frequency step) .....	
DDX7017/7047(R) .....	530kHz~1700kHz (10kHz)
DDX7047(X)/7067 .....	531kHz~1611kHz (9kHz)
Usable sensitivity .....	28dBμ

## Video

Color system of external video input .....	
DDX7017/7047(R) .....	NTSC
DDX7047(X)/7067 .....	NTSC/PAL
External video input level (RCA jacks) .....	1Vp-p/75Ω
External audio max input level (RCA jacks) .....	1V/22kΩ
Analog RGB input .....	0.7Vp-p/75Ω

## Audio

Maximum Power (Front & Rear) .....	50W x 4
Full Bandwidth Power (Front & Rear) .....	
DDX7017/7047(R) .....	22W x 4 (4Ω, 14.4V, 1% THD)
DDX7047(X)/7067 .....	22W x 4 (at less than 1% THD)
Preout level .....	5V/10kΩ
Preout impedance .....	80Ω
Tone .....	
Bass .....	100Hz±10dB
Middle .....	1kHz±10dB
Treble .....	10kHz±10dB

## ■ General

Operating voltage .....	14.4V (11V~16V)
Current consumption .....	15A
Dimensions (W x H x D) .....	182 x 112 x 163 (mm) / 7-3/16 x 4-7/16 x 6-7/16 (inch)
Operational temperature range .....	-10°C~60°C
Storage temperature range .....	-20°C~85°C
Weight .....	2.9kg / 6.4 lbs

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DDX6027/6027Y/7017  
DDX7037/7047/7067

## SPECIFICATIONS (DDX6027/6027Y/7037)

### Monitor Section

Picture size .....	6.4 inches (diagonal) wide
W x H .....	143.6 W x 77.1 H (mm)
Display system .....	Transparent TN LCD panel
Drive system .....	TFT active matrix system
Number of pixels .....	336,960 (480H x 234V x RGB)
Effective pixels .....	99.99%
Pixel arrangement .....	RGB striped arrangement
Back lighting .....	Cold Cathode Fluorescent Tube

### DVD Section

D/A Converter .....	24Bit
Decoder .....	Linear PCM/Dolby Digital/dts/MP3/WMA
Wow & Flutter .....	Below Measurable Limit
Frequency response .....	
96k Sampling .....	20~22,000Hz
48k Sampling .....	20~22,000Hz
44.1k Sampling .....	20~20,000Hz
Total harmonic distortion 1kHz .....	0.007%
Signal to Noise ratio .....	98dB (DVD-Video 96k)
Dynamic range .....	98dB (DVD-Video 96k)
DISC Format .....	DVD-Video/VIDEO-CD/CD-DA
Sampling frequency .....	44.1kHz/48kHz, 96kHz
Quantifying bit number .....	16/20/24bit

### FM

Frequency range (Frequency step) .....	87.5~108.0MHz (50kHz)
Usable sensitivity (S/N : 26dB) .....	9.3dBf (0.7μV/75Ω)
Quieting sensitivity (S/N : 46dB) .....	15.2dBf (1.6μV/75Ω)
Frequency response (±3.0dB) .....	30Hz~15kHz
S/N .....	
DDX6027/6027Y .....	65dB (MONO)
DDX7037 .....	70dB (MONO)
Selectivity .....	Over 80dB (±400kHz)
Stereo separation .....	
DDX6027/6027Y .....	35dB (1kHz)
DDX7037 .....	40dB (1kHz)

### MW

Frequency range (Frequency step) .....	531kHz~1611kHz (9kHz)
Usable sensitivity .....	25μV

### LW

Frequency range .....	153kHz~281kHz
Usable sensitivity .....	45μV

### Video

Color system of external video input .....	NTSC/PAL
External video input level (RCA jacks) .....	1Vp-p/75Ω
External audio max input level (RCA jacks) .....	1V/22kΩ
Analog RGB input .....	0.7Vp-p/75Ω

### Audio

Maximum Power (Front & Rear) .....	50W x 4
Full Bandwidth Power (Front & Rear) .....	
DDX6027/6027Y ...	30W x 4 (PWR DIN45324, +B=14.4V)
DDX7037 .....	22W x 4 (at less than 1% THD)
Preout level .....	5V/10kΩ
Preout impedance .....	80Ω
Tone .....	
Bass .....	100Hz±10dB
Middle .....	1kHz±10dB
Treble .....	10kHz±10dB

### ■ General

Operating voltage .....	14.4V (11V~16V)
Current consumption .....	15A
Dimensions (W x H x D) .....	182 x 112 x 163 (mm)
Operational temperature range .....	-10°C~60°C
Storage temperature range .....	-20°C~85°C
Weight .....	2.9kg

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